I No.

Summary Proceedings

of the

Twenty-ninth Meeting of the Indian Central Cotton Committee, Bombay,

held on the

28th and 29th August 1934.

INDIAN CENTRAL COTTON COMMITTEE.

29TH MEETING-28TH AND 29TH AUGUST 1934.

(Held at Vulcan House, Ballard Estate, Fort, Bombay.)

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Present

- Dewan Bahadui Sn T Vijayaraghavacharya, K.B.E., (President), Vice-Chairman, Imperial Council of Agricultural Research,
- Sir Puishotamdas Thakurdas, Kt.; CIE, MBE., (Vice-President), Representative of the East India Cotton Association, Bombay,
- B C Burt, Esq, Cl.E, MBE, IAS, Agricultural Expert, Imperial Council of Agricultural Research, (cx-officio),
- S V Ramamurty, Esq , ICS, Director of Agriculture, Representative of the Agricultural Department, Madras Presidency,
- Dr W Burns, IAS, Director of Agriculture, Representative of the Agricultural Department, Bombay Presidency,
- Khan Bahadur Maulvi Fatch-ud-Dm, I A S, Officiating Director of Agriculture Representative of the Agricultural Department, Punjab,
- J H Ritchie, Esq., IAS, Director of Agriculture, Representative of the Agricultural Department, Central Provinces,
- H. B Moore, Esq, Representative of the Bombay Chamber of Commerce,
- Chumlal B Mehta, Esq, Representative of the Indian Merchants' Chamber Bombay,
- F G Travers, Esq, Representative of the Karachi Chamber of Commerce,
- Seth Sakarlal Balabhar Representative of the Ahmedabad Millowners' Association,
- E J W Plummer, Esq., Representative of the Upper India Chamber of Commerce,
- Y G Deshpande, Esq, Commercial Representative. Central Provinces,
- Rao Bahadur G R Kothare, MLC., Commercial Representative, Central Provinces,
- Khan Bahadur Sardar Habibullah, M L C, Commercial Representative, Punjab,
- Akhil Bandhu Guha, Esq, Commercial Representative, Bengal,
- Rao Bahadur M G Deshpande, C.B.E, Co-operative Banking Representative,

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- K S Ramaswami Gownder, Esq , Representative of cotton growers, Madras,
- M R Ry K Sarabha Reddi Garu, Representative of cotton growers, Madras,
- Sardar Rao Bahadur Bhumbhai Ranchodji Naik, M L C, Representative of cotton growers, Bombay Piesidency,
- Sardar Sampuran Singh, M L C, Representative of cotton glowers, Punjab,
- Mian Nurullah MLC, Representative of cotton growers, Punjab,
- N M Deshmukh, Esq. Representative of cotton glowers, Central Provinces and Berar,
- J B Deshmukh, Esq, Representative of cotton growers, Central Provinces and Berar,
- Nizam-ud Din Hyder, Esq , Director of Agriculture, Representative of the Hyderabad State,
- C V Sane, Esq Director of Agriculture, Representative of the Baroda State
- H II Pandya Esq, Director of Agriculture, Representative of the Gualior State,
- D N Mahta, Esq Economic Botanist for Cotton, Central Provinces,
- S S Salimath, Esq, Deputy Director of Agriculture, Southern Division, Dharwar,
- Musahib-i-Khas Bahadur S V Kanungo, Finance Minister, Representative of the Indore State,
- Seth Isserdas Varındmal, Representative of the Indian Merchants' Association, Karachi,
- P B Richards, Esq , I A S , Entomologist to Government, United Provinces,
- Khan Saheb Farrukhbeg Sadıkalıbeg Mırza, Nawabshah, Sınd,
- Lala Shrı Ram, Representative of the Cotton Millowners of Delhi,
- The Secretary (P H Rama Reddi, Esq, IAS),
- The Officiating Director, Technological Laboratory (R P. Richardson, Esq.), and
- The Publicity Officer (R D Mihra, Esq)

By invitation

- Mr T C S Jayarutnam, I C S, Director of Land Records, Central Provinces,
- Mr P M Joseph, Deputy Director of Statistics Department of Commercial Intelligence and Statistics, Calcutta
- Mr A K Yegna Narayana Iyer, Director of Agriculture, Mysore State,

- Mr M D. Williams, British Cotton Growing Association (Punjab), Ltd, Khanewal,
- Rai Saheb Thakur Ram Prasad Singh, Economic Botanist to Government (for Cotton), United Provinces,
- Mr B S. Patel, IAS, Deputy Director of Agriculture, Gujerat,
- Mr J B Hutchinson, Geneticist and Botanist, Institute of Plant Industry, Indore,
- Mr C G. Paranjpe, Agricultural Engineer to the Government of Bombay,
- Mr. B. P. Deshpande, Cotton Entomologist, Broach,
- Dr. V N Likhite, Officer in charge, Cotton Root Rot Scheme, Baroda

Letters and telegrams were received from the following members regretting their mability to attend the meeting —

- The Director General of Commercial Intelligence and Statistics, Calcutta,
- Mr. S. D. Saklatvala, Representative of the Bombay Millowners' Association,
- Mr. J Nuttall, Commercial Representative, Madras,
- Rao Bahadur C S Shirahatti, Representative of cotton growers Bombay Presidency,
- Khan Bahadur Maulvi Mohammad Obaidur Rahman Khan, M L C, Representative of cotton growers, United Provinces,
- Rai Bahadur Lala Anand Sarup, MLC, Representative of cotton growers, United Provinces,
- M R Ry V Ramanatha Iyer, Avl, Cotton Specialist, Combatore,
- Mr W J Jenkins, IAS, Chief Agricultural Officer in Sind,
- Khan Bahadur Nawab Fazl-1-Alı Khan, Chairman, District Board and President, Central Co-operative Bank Ltd, Gujrat (Punjab)

President's Speech

Gentlemen,

I have great pleasure in welcoming you to the 29th meeting of the Indian Central Cotton Committee.

We miss a familiar figure in the person of Sir Manmohandas Ramji who was a co-opted member of your Technological Research Sub-Committee as a representative of the Bombay Millowners' Association Of his many-sided activities, of his independence of thinking and of the value of his contribution to the public life of the country in general, and to that of Bombay in particular, it is hardly necessary to remind you. I am sure you will ask me to express on your behalf our sorrow at the close of a life full of years and honour.

I desire to offer our congratulations to Mr. W. Roberts who has been honoured with the title of CI.E

I also desire to extend a cordial welcome to Seth Sakarlal Balabhai in the place of Seth Narahlal Jivanlal, to Mr K S. Ramaswami Gownder in the place of the Honourable Mr V C Vellingri Gownder, to Mr. Akhil Bandhu Guha in the place of Mr Nalim Ranjan Sarkar, to Mr F. G Travers in the place of Mr G C R Coleridge who resigned shortly after his appointment in the place of Mr J O G Barnes, to Mr Nizamud Din Hyder in the place of Mr B A Collins, to Mr S S Salimath as an additional member in the place of Dr Burns, who now represents the Bombay Department of Agriculture, and to Seth Isserdas Varindmal in the place of Mr Girdharlal B Kotak We are glad to see in our midst Mr A K Yegna Narayana Iyer who has succeeded Dr Coleman as head of the important and progressive Department of Agriculture in Mysore

Our policy of encouraging the replacement of short staple cotton by medium and long staple cotton is steadily extending and the agenda of this meeting bears abundant testimony to this. The events of last year have emphasised the wisdom of this policy and there are gratifying signs that it is winning public recognition. You will all remember the fulldress debate that took place at our last meeting on the comparative merits of 1A and 1027 A.L.F in South Gujerat. A controversy that had been going on for over five years was finally settled so far as our Committee was concerned by the decision that 1027 only was to be The Sonsek Group of Co-operative Societies which had set their face against 1027 from the beginning have in the current year taken 1027 seed in large quantities and have come into the scheme of seed distribution we sanctioned in our January meeting and formed a seed group from amongst themselves I should like if I may, to pay a tribute to the firmness of the Indian Central Cotton Committee in this matter and to the admirable zeal of the Bombay Agricultural Department which have produced this successful result. As a supplement to the 1027 seed distribution scheme two schemes are before you for subsidising efforts on the part of the Bombay and Baroda Departments of Agriculture to eliminate Goghari from their respective areas

The extension of the area under Verum cotton in the Central Provinces is another step in the same direction. At its last meeting the Agricultural Research Sub-Committee asked the Central Provinces Department of Agriculture to put up a seed scheme for a period of five years instead of the usual yearly request for assistance which had been the practice hitherto. The Local Government have agreed to finance the scheme for this period by an annual recurring advance of two lakhs of rupees. On our part the Agricultural Research Sub-Committee has recommended that we should assist what is partly a marketing scheme and partly a seed scheme in order to ensure a reliable supply of pure seed and to the farmer a proper premium. It has been locally ascertained that the seed not sold through the pools supervised by the Agricultural Department was practically all adulterated and that the sellers did not obtain anything like the premium they would have got if they had sold through the pools. The ments of the scheme are therefore obvious.

In the same connection I must invite your attention to the important proposal made by the Special Sub-Committee which you have appointed to deal with the question of developing wider markets for Indian cottons The Sub-Committee recommended that a compact area capable growing 300,000 acres of cotton should if possible be reserved for long staple cotton in the Barrage areas of Sind. The recommendation has been examined with great care and in full detail by the Chief Agricultural Officer in Sind whose considered note is now before you. As you will see he is in full sympathy with the underlying objects of the Resolution which are to organise and control development of long staple cotton cultivation in the Barrage areas and the establishment and maintenance of a reputation for the purity and quality of the Sind-American cotton crop among consumers both in India and abroad But he points out difficulties in the way of setting up a compact area of the nature proposed Of all places in India, Sind offers the greatest scope for the production of long staple cotton There is an assured demand for it and it could replace the bulk of the cottons now imported from America and Africa for spinning finer counts. I am sure the question will receive your most careful attention.

The problem of supplying the demand both in India and abroad for pure, reliable staple cottons has brought to the front the old question of the heensing of gins and presses As long ago as 1924 the Indian Central Cotton Committee recorded its opinion that this provided the only effective solution of the evil of the mixing of inferior cottons with the Punjab-American cotton The resolution however did not find favour and we tried other remedies which did not involve legislative We set up a Special Sub-Committee to deal with malpractices but by 1933 it was clear that the limit of voluntary action had been reached and that without a clause in the Cotton Ginning and Pressing Factories Act to provide for licensing, the evil could not be met accordingly re-affirmed in August 1933 our resolution of 1924 and this is under the examination of the Government of India Meanwhile events have been moving fast. A representation was received by our Committee in March of this year from about forty leading cotton merchants and firms in Bombay drawing attention to the increasing malpractice of watering cotton and asking for immediate legislative action About the same time the Central Provinces Board of Agriculture pointed out that adulteration was depriving the grower of long staple cotton of the full benefit he was entitled to get in the shape of an enhanced premium and that this stood in the way of expansion and suggested Representations to the same effect followed from the same remedy the Bombay Millowners' Association and from the Bombay Chamber Our Local Sub-Committee considered these documents and asked the Vice-President to hold a conference of the interests concerned and a resolution prepared by this conference drawing attention to the "dangerous" increase in the evil of watering of cotton and asking for immediate action in the interests of Indian cotton is coming up before you for discussion.

I am afraid, Gentlemen, I have already exceeded the limit of time I have set to myself and must close with a bare mention of the report of the Special Meeting of the Agricultural Research Sub-Committee which at your instance has reviewed all the research schemes financed in the past from our funds. It has been a valuable inquiry and has resulted in important suggestions for the future

Subject 2.—Confirmation of Minutes

The Minutes of the pievious meeting were confirmed.

Subject 3 —Comments of the Government of India on the Annual Report of the Committee

The Secretary's noted was recorded

Subject 4 —Changes in the personnel of the Committee and Sub-Committees

The Secretary's note* was recorded

Subject 5—Appointment of cotton growers' representatives on the Committee to the Board of Directors of the East India Cotton Association

Referring to the three places to be filled by election on the Committee of the Board of Directors of the East India Cotton Association, the *President* said that the sitting members were Messis N M Deshmukh, Mian Nurullah and Sardar Rao Bahadui B R Naik and that a ballot would be held if there were more than three members. On the *Vice-President* proposing the re-election of the three members and being seconded by *Rao Bahadur G R Kothare*, the motion was carried

Mr N M Deshmukh, drawing attention to the scheme of hedge contract mentioned in his report as having been placed before the East India Cotton Association, moved a resolution uiging upon the Association the acceptance of the "Quality Staple Contract" introduced by him Explaining the need for this introduction, Mr Deshmukh recalled its inception at the instance of the Board of Control appointed in 1918 to control prices Prices had since gone down and the present position was that in spite of the Committee's efforts at introduction and development of vast areas of stapled cotton, the trade did not appreciate the importance of these new varieties The East India Cotton Association had received several complaints to the effect that, under the present system, proper hedging facilities did not exist for improved cottons like those produced by the Hubli and Gadag Co-operative Cotton Sale Societies and that the growers suffered consequently In the circumstances, the creation of a new Hedge Contract for cotton of 7" and longer staple was the only desirable alternative He had accordingly framed a scheme called the "Quality Staple Contract" and placed it before the East India Cotton Association. To forestall the possibility of its going the way of the Southerns Contracts, he suggested that all cottons of 3" staple which were at present tenderable under the Broach Contract should be taken out of the contract and put under the new contract His scheme was accepted by the Hedge Contracts Committee and was now before the Board of Directors. His intention in moving the resolution was to enlist the full support of the Committee in order to facilitate its smooth passage into the bye-laws of the Association.

Mian Nurullah seconded the resolution

Sardar Rao Bahadur B R Naik thought the new contract would be in the interest of the grower but wished to know from the trade members if the proposal was a practical one. He was told that Navsari cotton which was 7" was a check on Broach Contract, but he did not mind Navsari cotton being made tenderable under the new contract provided it did not prove a dead contract after once being created Mr Chumlal B Mehta said that there has been great divergence of opinion, as to the benefit to the growers, on this question of widening or narrowing of hedge contracts There was no unanimity of opinion even among growers themselves and immense harm could be done to the grower by widening a contract and making more growths tenderable against it as buyers were reluctant to offer higher prices for a cotton which might be anything in a wide range of cottons tenderable against the contract Widening of contracts would therefore, only depress the contracts He felt sure that Mr Deshmukh's resolution would be carefully considered by the East India Cotton Association and that the purpose of the Committee could be served by sending them the discussion on the subject instead of a formal resolution

Scth Sakarlal Balabhar thought that the new contract was unworkable, as stapled cotton was mostly purchased direct from cotton growing centres. Any new contract would benefit the growers only if it was traded in

Mr Travers declared that his own firm sold only recently many thousands of bales of staple cotton at Rs 70 "ON" Broach, which was the basis of selling stapled cotton at present. He did not think growers would benefit under the system of Hedge Contracts, except on occasions when there was no demand from consumers for staple cotton. There was not enough staple cotton to meet even the demands of the Indian mills and a hedge contract merely proved a gambling medium of protection to the trade. He had little doubt that the East India Cotton Association would protect the interest of the grower, in the event of a suitable suggestion going to them, but he did not think that contract could be so shaped as to benefit the growers. Rao Bahadur Kothare too had his personal experience as a buyer of Verum cotton to make him think that the proposal had better wait till more staple cotton was grown in India. Seth Isserdas Varindmal thought that as a general practice it was undesirable to have many contracts, and that long stapled cottons like 289F fetched a premium of Rs 3 to Rs 4 per maund for quality

The Vice-President thought that the discussion was raised for the benefit of the Board and General Body of the East India Cotton Association when they took up the proposal for consideration However it was sought to give up Broach Contract in favour of the one now proposed, which was outside the competence of the Committee which had no power of enforcing trading in it anywhere In the circumstances, Mr Deshmukh had gone a little too far and was better advised to withdraw the resolution At the most, this resolution could be put forward if it were a unanimous opinion of glowers, but the present proposal represented the version of only one side The bulk of the task of marketing cotton through its various vicissitudes devolved on a variety of agencies other than the growers and unless these people were satisfied, the acceptance of this resolution was fraught with danger to the structure of cotton marketing in India The Broach Contract was rooted in years of tradition and its relation to world cotton prices and trade conditions provided a barometer Since 1918, the contract was progressively made to accommodate other varieties of cotton and was used more for hedging than for actual tenders He feared that as a consequence of this new contract making only staple cotton tenderable against it, prices would be thrown out of joint and it would not be advantageous to the growers of cotton as a whole so long as the contract did not include a fair bulk of the average Indian crop He thought it therefore madvisable that the Committee should be a party to a measure of this kind and urged Mr Deshmukh to withdraw the resolution Sardar Rao Bahadur B R Naik, after hearing the opinion of the trade members, urged Mr Deshmukh to withdraw his resolution and suggested that the discussion on the subject be sent to the East India Cotton Association He declared that the success of measures of this kind depended on the co-operation of all the various agencies of the trade and in its absence no one stood to gain The Committee had no right to enforce a measure to which the trade was averse and unless they were able to convince the trade that the measure was as much in their interest as in the interest of the glowers, it was no use pressing further with the measure He however promised support to Mr Deshmukh in the East India Cotton Association if he agreed to drop the matter from the Committee

Mr Deshmukh replying to criticisms maintained that the measure as formulated was intended to accommodate only cottons of \S'' and above and not to prejudice the Broach Contract, and as for the brokers who were the principal party affected by it, he quoted a letter from the Bombay Cotton Brokers' Association in favour of more contracts

The *Vice-President* warned Mr Deshmukh against accepting the views of the Association indiscriminately and referred him to the details of the proposal in the East India Cotton Association Mr Deshmukh while maintaining his case agreed to withdraw the resolution in view of the differences of opinion

Subtrees 6 Mixing of Verum with ordering Jan cotton

Mr Ritchie, referring to the recolution proposed under Subject 6, regarding the mulpractice of watering cotton, and that missing of Verum cotton with Jari was an equally scrious colland if the estension of Verum cotton was to be a success, he suggested that the Government of Indiable requested to introduce a permissive clause in the Cotton Channel and Pressing Factorics. Act to enable local Government statistics are action they deemed necessary. He had consulted the Central Provinces Government, and he was informed that the pollution of the Central Provinces Board of Agriculture was not forwarded to the Government of India, as they felt that the question was a thorny one and required tree care for its clucidation. He suched, therefore that the Resolution ander Subject 9 were extended to cover other malphatics on well.

Subject 7 - Representation of cotton interests in Karnels on H. Irohan Central Cotton Commettee

The President said that the Government of Bombey had eggeted an alternative nomination of a representative of the Karaba Indian Merchants' Association and the Buyer' and Shapper' Chamber it to of the continuous representation of the former and had a ten the operation of the Committee

Sold Isserdas Variedinal pointed out that the Buyer' and Shipp rechamber was represented on the Karachi Indian Merchant' As exertion and that therefore it required no separate representation. Mr. Jenlar also shared this view. The President remarked that since the interest of the Buyers' and Shippers' Chamber had been merged in the other three trade bodies in Karachi, Mr. Jenkins was definitely against any sort of representation to this Chamber. His resolution to accept Mr. Jenkins' proposal, was seconded by Seth Isserdas, Larindinal, and carried unanimously.

Subject 8 -- Resignation of Mr. D. F. Kapadia, Assistant Technologist, Technological Laboratory

The President suggested leaving the question of leave and Provident Fund due to Mr Kapadia and the action to be taken on his representation to a small Sub-Committee consisting of the President, Vice-President Rao Bahadur M G Deshpande and Khan Bahadur Sardar Habibull the to be finally disposed of by the Standing Finance Sub-Committee. The Vice-President urged that the matter might be finally disposed of by the full Committee. The President had no objection to this course. A resolution proposed by the President and seconded by Sardar Rao Bahadur B R Nail for the appointment of a Sub-Committee with the abovementioned personnel to examine the allegations made by Mr D F. Kapadia and to report to the next meeting of the full Committee was carried.

Subject 9 -Licensing* of gins and presses.

The Vice-President drawing attention to the resolution passed in August 1933 regarding the licensing of gins and presses submitted to the Government of India, observed that the malpractice of watering cotton was growing as was evident from the requisition sent to the Committee by the trade in Bombay There was some difference of opinion on the question of licensing gins and presses but none on the question of stopping the evil Before moving the resolution at this full meeting he had taken care to see that it reflected the general opinion of the whole community concerned To that end, with the Local Sub-Committee's consent, he had sought to enlist the assistance of the Presidents of the Millowners' Associations of Bombay and Ahmedabad, the Bombay Chamber of Commerce, the Indian Merchants' Chamber and the East India Cotton Association in diafting the resolution reminding the Government of India of the Committee's resolution of August 1933 and drawing the attention of the Government to the dangerous increase in the evil of watering cotton which called for immediate action in the interest of Indian cotton He pointed out that unless the resolution of August 1933 was resemded, the Committee was supposed to stand by it and bound to draw Government's attention to it. The evil, he said, starting in Berar, Central Provinces and Khandesh, was rapidly spreading Those who had opposed the resolution of August 1933 could not be supposed to be changing their attitude merely by supporting the present resolution Sardar Rao Bahadur B R Naik seconded the resolution Rao Bahadur G R Kotharc though sharing their disgust at the evil was against any legislative interference and, in view of the August 1933 resolution, thought the present resolution unnecessary The Vice-President stressed the need to elicit the views of the Government of India and said that merely reminding the Government did not commit individual members to the Committee's views Rao Bahadur Kothare in reply said that the Committee should consider how legislation of the type would affect the gins and presses He pointed out that the signatories to the requisition were themselves buyers of this cotton and could put a stop to the practice if they so willed thought that the penalty attaching to malpractices in the ordinary course of business was enough deterrent. He therefore suggested that instead of urging legislation, it would be better to consult big businessmen to devise means to discourage the evil Mr Y G Deshpande also shared Rao Bahadur Kothare's misgivings in regard to legislation and thought that the personal influence of the Vice-President with the signatories might be used to convince them of the need for ending the evil Lala Shri Ram remarking on the inadequacy of the contemplated measure said that benefits from this evil practice would not be enduring and would harm the interests of the agriculturists through the discredited reputation of Indian cotton. He urged all necessary steps on Government.

^{*} Appendix I (page 49)

Rao Baladar W. G. De Lepande agreed with the President's greation that the plea that cotton we watered at the highline of merchants ... too lyme to be reason and it too. Supportment to latter the first respection. Seth Lecture Variational declared that the Kern his Contact Meetings. were against here mer. Pure Parish Viscoun cottoe faller to the mithet only mixed to one except. He has detector against of other members that the practice contained one of the except contained of t the gimers were not enter by to blame - Serde-Rook - 10 B R 312 pointed out the comprouse offered and affine the live of the of its resolution and said that in sieve of the observe darger are a caronical practice of would not do to set to to to the old in the feet of the set ments had taken been little action to reaction the experience are encotton and the grower vhost is refounded dilling to the consecution of supported the resolution. He Book police in the process representation commercial representative from Karasan months of the constant the commens of opinion in the Kanadhar star, some per an east of the Herecally it he offer of one of the broger, and type of a real to make a contract for year-alway for 500000 had a 250d server of guaranteed to be unmixed and thought that the transfer of some as a Karachi representative ought to place have the conservation recommendation of the Kar ela Cotton () or or to-berg egapt and presses which was carried by a majorate of 10 to 2 to the Smal Cotton Committee. Must Viriability apportunity to the detailed of a mented on its merits and observed the the groups will be the prothe malpractice

Sardar Samperary South pointed out the detre of the Community preserve the integrity and reputation of leading cotton at non-and abroad and recommended preventive legislative measures course that their efforts bore from Soth Salardal Bulabane also broad to a fresh cyclone of the insidious vivs which adulteration took was all that if the Commission agents were not the actual calprais, they were always the thought that legislation was necessary

The Vice-President summing upseld that there so med to be an interesting agreement on the latter part of the resolution which was the really operative part. Rao Bahadur Kothare though opposed to legislation was unable to suggest any alternative and they could not lay much store by moral pressure. In view, therefore of the wide-pread feeling against the evil he thought that to arge legislation upon Government's emed to be the only alternative. Answering Rao Bahadur Kothare's question as to who profited by the adulteration he said that though the grower shared some of the profit the greater effect of this short sighted policy was ultimately detrimental to his own interest. He was not an all-round admirer of Indam States administration, but he had successively to point out to the efforts made by Indam States for effecting improvement in Indian cotton. He instanced the firm hand taken by Mr. Collins of the Nizam's idministration to stamp out this evil with entire success.

On the President putting the resolution to vote, it was unanimously carried

Subject 10 - Clean picking of cotton-Replies from Directors of Agriculture

The *President* said that the replies received from the Directors of Agriculture showed that clean picking of cotton did not pay the cultivator These replies were only for information

Subject 11 —Cotton Marketing—Organisation of regulated cotton markets under the Bombay Cotton Markets Act

The Secretary's note ' was recorded

Subject 12 —Cultivation; of improved varieties of cotton in the Barrage areas of Sind—Note by Chief Agricultural Officer in Sind

The *President* remarked that as Mr Jenkins was unable to attend due to ill-health, they could proceed with the subject as the note put up by him made the matter clear

Mi Buit, referring to the resolution passed by the Special Sub-Committee set up for the purpose of finding wider markets for Indian cottons, said that the resolution drew the attention of the Government of Bombay to the urgent need of a proper cotton policy in Sind and the establishment of a compact block of 300,000 acres under long-staple Recalling the discussion at the Karachi meeting in February 1933 and the view of the Karachi cotton trade that Sind should grow no more than 200,000 bales of short-stapled cotton, he appreciated the wisdom of the advice from the trade which was now apparent in view of the shrinking demand for short-staple cotton. On the other hand the demand for staple cotton had increased and the Indian mills, unable to buy their requirements at home, were importing large quantities of foreign cotton. The examples set by other countries like America and Egypt and even Rajpipla nearer home to maintain one variety were a sure guidance Giving reasons for recommending for Sind a course which the Committee had not done for the Punjab, he said that the Punjab growers had failed to maintain one pure variety of the highest quality from the very start The problems of 1934 were quite different from those of years ago Page 5 of Mr Jenkins' note which gave figures of the respective acreage for American and Desi cottons indicated that the Thar and Parkai District already maintained a large area under staple cotton and it would not be difficult to develop 300,000 acres of long-staple cotton in a compact block The problem of mixing would not arise with the block of a nature suggested by the Committee Proper legislation after that devised in Madras could prevent mischief on the part of the minority The supply of pure seed was an important question

^{*} Not printed

and he had no hesitation in recommending Mr Jenkins' proposals for a compact block to the Committee.

Seth Isserdas Varindmal drew the attention of the Committee to the case of Samrao Taluka where Desi cotton was grown side by side with American and observed that cultivators grew varieties suited to the conditions of soil and climate. He deprecated the idea of reserving blocks of particular varieties and said that what was unsuitable for the Punjab was equally so for Sind. He feared that the result of following that policy would be to oust the small cultivators and favour big zamindars.

Mian Nurullah congratulating Mr Jenkins on the lucid note put before the Committee, recalled the recommendations of the Indian Cotton Committee of 1919 regarding the vast possibility of growing long-staple cotton in Sind Mr Jenkins' note graphically illustrated this possibility. They had the assurance of a growing demand for staple cotton and conditions in Sind were different from those of the Punjab where they were confronted with settled conditions. The proximity of the Karachi port was another advantage Referring to Mr. Jenkins' suggestions contained in paragraph 16, he suggested the drawing up of a scheme by the Chief Agricultural Officer in Sind in collaboration with the Publicity Officer of the Committee, by which big farms of 1 to 10 thousand acres could be started and given to private individuals for the production and distribution of seed. He thought that private farms commanded more popular interest than Government farms and with Co-operative Banks and Loan Societies with zamindars as shareholders he felt no doubt that the proposal would be a success

Mr Burt, in reply to a question from the Vice-President, said that the Bombay Government should be informed that the Committee fully endorsed the resolution of the Special Sub-Committee Sardar Sampuran Singh, next speaking, pointed out that in the Punjab the holdings were small whereas in the Barrage areas they were large and owned by substantial individuals and the uniform nature of the Sind soil was more suitable for long-staple cotton. He disagreed with Mr Jenkins' statement that Desi cotton should be assessed at an enhanced rate and suggested that in view of its lesser need and lower prices it would be an injustice. He, however, commended the rest of Mr Jenkins' proposals

Mr Chumlal B Mehta, referring to paragraph 9 of Mi Jenkins' note in which co-operation and possible coercion of growers in the cultivation of a particular type of cotton was suggested as a means, declared that he could on no account advocate a measure which forced the hands of the cultivators to a particular variety without the option of measures against possible failures

Khan Bahadur Sardar Habibullah denied any intention on the part of the Special Sub-Committee to coerce farmers. The proposals aimed at providing facilities to growers who wanted to sow long-staple cotton From his own experience he could maintain that long-staple cotton could be extended in many places where it is new, Propaganda and

inducement would help to achieve success in this direction especially in the case of Sind where tracts were being newly opened up. He thought Mr Jenkins' suggestion very valuable and if the Bombay Government adopted them and provided certain facilities the Committee's object would be achieved

Lala Shri Ram, in view of fears expressed by Seth Isserdas Varindmal, thought that the Bombay Government should be advised to take particular care of the interests of small zamindars and thought that the resolution on encouraging long-staple cotton should receive the whole-hearted support of everybody

Seth Isserdas Varindmal rejoinding said that he had nothing to say against long-staple cotton as such but thought that the reservation of areas for particular cottons would encroach on the freedom of the growers

Committee endorses the resolution of the Special Sub-Committee regarding the establishment of a compact block of long-staple cotton in Sind and approves generally of the proposals of the Chief Agricultural Officer in Sind "made it clear that the Committee in formulating the proposal had in mind the interests of the average cotton growers. Referring to Mr Chunilal B Mehta's suggestion about the undesirability of legislative interference with the freedom of the growers, he pointed out that Mr Jenkins had expressed his conviction of establishing a block of long-staple cotton in Sind without any further legislative action. Neither was the Sub-Committee committed by its resolution to any particular method. It had called for co-ordinated effort and had declared itself in favour of legislation only as an eventuality. The Committee had now only to endorse the resolution and Mr Jenkins' proposals. It was seconded by Khan Bahadur Sardar Habibullah and carried unanimously

Subject 13—Campaign for extension, seed distribution and marketing of pure Sind-American cotton

On the suggestion of Mr Burt that the Secretary's suggestion be adopted, the *President* proposed the following resolution —

RESOLUTION—"That the various suggestions of the Sind Cotton Committee be referred back to the Chief Agricultural Officer in Sind for reconsideration by the Sind Cotton Committee with the object of ascertaining to what extent any of the suggestions made could be given effect to."

This was seconded by Mr Burt and carried

Subject 14 —Half-yearly Report* of the Publicity and Propaganda Officer

Seth Isserdas Varindmal spoke of the work of the Publicity Officer at Kaiachi and Sakrand and other stations in the desert of Sind which he had frequently visited, and said that in view of the good work he was doing the Publicity Officer should be made permanent

Rao Bahadur G R Kotharc and Klan Bahadur Sardar Habibullal variously commented on the importance of publicity to the work carried on by the Committee and the excellent work among the agriculturists done by the Publicity Officer The extension of propaganda activities among the growers in the Central Provinces was also advocated.

Saidar Ruo Bakadur B. R. Nail recalling the hesitation with which the department was opened declared that Mr. Mihra had since proved its usefulness and had brought home to the agriculturists of the country by his propaganda through leaflets and the press the importance of the work which the Committee was doing. He thought with others who had spoken before him that the Department and the Publicity Officer should be made permanent.

The President's resolution for the adoption of the report of the Publicity and Propaganda Officer was seconded by Sardan Ray Bullalin B. R. Nadland carried intenimously.

Subject 15 -Report on the Fungation of American Cotton

The President proposed the following resolution which was seconded by Mr. Chundal B. Mehta and carried:—

- RESOLUTION—"The Indian Central Cotton Committee approves of the action taken by the Standing Finance Sub-Committee in regard to the question of the reduction of the Bombay Port Trust share of fumigation charges and the revision of the pay and allowances of the fumigation staff."
- "The Indian Central Cotton Committee requests the Government of India to sanction a rebate of 8 annas per square bale and 5 annas per round bale on the fumigation fee paid on American cotton fumigated at square bale and round bale rates during the fiscal year 1933-34."
- "The Indian Central Cotton Committee approves of the action taken by the Local Sub-Committee in recommending to the Government of India the abolition of the special fee of Rs. 10 for sample bales."

Subject 16 —Provincial Cotton Committees—Proceedings of the Sind Cotton Committee

The Secretary's note* was recorded

Subject 17 .- Summary of Proceedings of the Local Sub-Committee.

The Secretary's note* was recorded.

Subject 18.—Report of the Cotton Forecast Improvement Sub-Committee.

In proposing the adoption of the Report of the Cotton Forecast Improvement Sub-Committee, Seth Isserdas Varindmal pointed out the maccuracies in the area and yield figures for Sind published in the last forecast and suggested that the practice followed in America, with good results, might be followed in India also. The President in reply said that the illiteracy of the Indian cultivators made a difference from the American case where information was collected from the cultivators Mr. D. N. Mahta replying to Rao Bahadui G. R. Kothare said that the distinction in the trade classification for Indian cottons between C. P. Verum and Berar Verum was made because of the former's superiority in spinning quality due to differences in climate and soil. The resolution proposed by the President and seconded by Seth Isserdas Varindmal was carried

Subject 19—Schemes of the Committee—Report! of the Special Meeting of Agricultural Research Sub-Committee

Dr. Burns, referring to the Special Meeting of the Agricultural Research Sub-Committee, dwelt on its usefulness and said that the labours of similar previous Sub-Committees and its own previous discussions in examining and overhauling its research policy should be a guide to the Committee against spending money unnecessarily on the same trials He, however, thought that in view of the fact that the Committee examined and criticised each scheme at every stage, it should make its conclusions on the results with this in mind For instance, the Surat Physiological Scheme was started in the hope of increased yield by stopping shedding of buds, flowers and bolls Researches had shown, however, that shedding was a normal life process in the plant But they had also added to our knowledge as to what caused shedding and the amount of incidental loss Similar discoveries relating to nourishment of plants at suitable times in the form of a suitable manuie had also enabled us to determine how best to provide nourishment to ensure increased yield These results, though not of immediate practical value, were important. He therefore proposed suitable amendment to the statement in the report relating to the results of the schemes Mr Hutchinson seconded the resolution Mr Richards agreeing with the amendment said that the decisions taken at the Special Meeting were not unanimous and were based on the score of the immediate cash value of the results of the schemes to the grower From the scientific aspect. the schemes have yielded important results and were calculated to save unnecessary work for other workers. The Vice-President in reply made it clear that the trade supported Cotton Cess in the hope of getting something tangible done within a measurable period Whatever the scientific value of results, the main expenditure of the Committee must be on such work as would bear fruit within a reasonable time Bahadur Sardar Habibullah also shared the views of the Vice-President

and remarked that the general public including the growers and the trade were looking to the material results of the schemes From the practical point of view very few schemes could be said to have given good results and, Indore apart, the Committee was not designed as a scientific body but was more interested in productive results to the agriculturists. He therefore thought that a radical change in the system of granting schemes was called for The Vice-President did not, however, agree with the speaker in regarding the results as altogether disappointing The Committee had built up a good record during the last 13 years and though the practical results of its schemes had fallen short of expectations experience will guide in the direction of more practical undertaking than has hitherto been the case. If members wanted more time to study the report the subject could be placed on the agenda of the next meeting He also invited suggestions and criticisms from members to Mr. Richards' suggestions he also agreed to circulating a resumé of the discussion along lines suggested by Mr. Richards The President informed Khan Bahadur Sardar Habibullah that the minutes of the Special Meeting of the Agricultural Research Sub-Committee had been placed before the Agricultural Research Sub-Committee at its last meeting but objection was raised to its circulation, on the ground that the Vice-President at the Special Meeting had suggested that no record of formal minutes need be kept Though the suggestion has not been endorsed by the President he agreed that the Vice-President's remarks might have conveyed the impression that no formal minutes would be recorded. The matter on being put to vote was carried accordingly He also said that the amendment proposed would be placed before the next meeting of the Indian Central Cotton Committee and Mr Richards' request, as modified by the Vice-President, would be acceded to Mr. Chumlal B. Mehta supported the postponement The Vice-President said that the full Committee had only to receive and adopt the report under consideration, subject to such fundamental amendments as the Committee might make He was anxious that members should have sufficient time to consider the report and accordingly suggested further discussion of the The President then proposed to take the several items one after another and began with Dr Burns' amendment which was carried. Item Nos 1, 2, 3 and 4 were likewise accepted. When item No 5 came up for acceptance with a suggestion from Dr Burns that the Physiological Scheme also be included in it, Mr Burt explained that Dr McRae had visited Dharwar and Nagpur and after scrutinizing the mycological and entomological schemes in progress had given his opinions The Sub-Committee had probably in mind that these schemes could be better dealt with by Universities than by Agricultural Departments He therefore wished that the item 5 might express this idea more clearly Following Mr. Richards' views that "scrutiny" meant careful examination of monetary value, Mr Burt suggested the addition of "from the economic aspect" after the word "scrutinized" Mr B S Patel suggested occasional visits by experts to the schemes to lay down better plans at the end of every 2 or 3 years Dr Burns proposed the deletion of item 5 together. Mr Yegna Narayana Iyer thought that the theoretical aspect

of some problems might be left to Universities while the Agricultural Departments look to the practical parts The Special Meeting had considered that the schemes when they were sanctioned were not scrutimzed sufficiently This accounted for making greater scrutiny a condition for sanctioning new schemes in the future Mr Burt thought that the Universities would yield good results and proposed for the second part a resolution regarding the competence of certain Indian Universities and then constituent colleges and the desnability of encontaging them to take up such problems on cotton cultivation as are adapted to then organization and equipment Mr Richards thought that the report had better stand as it was and the Committee could make its own decisions separately, and replying to Mr. Burt who suggested amendment of the report itself said he only wanted to emphasise the economic aspect of the schemes M1 Chundal B Mehta recalling the discussion at the Special Meeting said that a particular scheme had merely duplicated labour as similar results had been obtained from another scheme Careful scrutiny would have avoided this error Mr D N Mahta pointed out that item 5 was agreed to by the Special Meeting because the schemes sanctioned were found to have brought no results of immediate money value That, however, did not mean the scheme was a failure though from the immediate economic aspect it apparently was President's proposal to delete item 5 was lost. The amendments were accordingly moved and the following decisions were arrived at —

No 1—All entomological, mycological and physiological schemes should be scrutinized more thoroughly from the economic point of view

No 2—Certain Indian Universities and then constituent colleges are now better equipped than formerly for research work in these branches in science and should be encouraged to take up problems bearing on cotton cultivation as are adapted to their organization and equipment. Item No 6 was carried as also the Sub-Committee's findings on "B" seed distribution and extension. The Publicity Department was to continue at the expiry of its sanctioned period which was approved. Referring to Mr. Roberts' two charges against the Committee that the Hyderabad State was treated very kindly and that the Standing Finance Sub-Committee mismanaged its funds, the President said that the verdict of the Agricultural Research Sub-Committee on these points had to be endorsed by the full Committee. The verdict was unanimously endorsed.

Subject 20 —Institute of Plant Industry, Indooe—Future policy

Referring to his discussion with the Agent to the Governor-General in Central India and the Prime Minister, Indore State, in accordance with the wishes of the Committee, the *President* said that they were not prepared to concede more than six scats to the Committee, as against the demand of the Committee for seven. The *Vice-President*, recalling the last discussion on the subject, said that the Director's residence to which the Committee was opposed was now a 'fait accompli.' The Indore

tangible scientific results should have been better appreciated, but he thought the proposed measure was too drastic He therefore suggested that these might be forwarded to the Governing Body as suggestions and that the final decision be taken on receipt of the views of the various States Mr Burt thought the figure of Rs 85,000 too low in view of the enlarged programme which the Committee had accepted as satisfactory He feared that the sudden cut in the grant might hamper research work In view, however, of the Vice-President's willingness to consider the granting of supplementary grants, he proposed the raising of the figure to Rs 1,00 000 The proposal that representation on the Governing Body should be according to contributions, he thought, was a sound one Mr. Richards declared that the effect of the reduction would be crippling the work of the Institute and to dispense with a third of its staff was the only course open. He suggested the continuation of the present arrangement till the end of 1935-36 when the question of future grants might then be considered in the light of the actual expenditure in that year and results achieved under the new programme Mr Mahta suggested that grants might be made on condition that unspent balances in any year should be surrendered to the Committee DrMr Burt's fears regarding the effect of the reduction on the Institute's work and recommended a higher figure The Vice-President replying to the debate assured Musahib-i-Khas Bahadur Kanungo that he had only the best way of serving the Institute in view Replying to objections to his figure, he said that he had no definite basis for his figures and his only object was to keep the Committee in close touch with the affairs of the Institute, than was the case hitherto His resolution was no bar to supplementary grants and he laid stress that the Committee retained the power on its purse. He had no objection to add to the resolution a sentence expressing the Committee's readiness to consider supplementary grants In view of the general agreement on parts 2 and 3 the Vice-President said he would put them to vote as items 1 and 2 Mr. Hutchinson had no objection to the accounts of the Institute being audited by the Auditor-General The Vice-President had no objection to certain minor amendments suggested by Mr Burt in paragraph 2 of the resolution and the President moved a resolution with Mr Burt's amendments as a substantive proposition —

RESOLUTION —"This Committee resolves that the Governing Body of the Institute of Plant Industry, Indore, be informed—

- (1) that the representation of the Indian Central Cotton Committee on the Governing Body each year should be in proportion to the contributions received in the preceding year from the Indian Central Cotton Committee and the States taking an interest in the Institute,
- (2) that the accounts of the Institute should be audited by the Auditor General as long as contributions from the Indian Central Cotton Committee continue,
- (3) that the Indian Central Cotton Committee will contribute to the Institute for a period of three years from 1935-36 a minimum sum of Rs. 85,000 per year for purposes of research work in cotton—the

programme for such work for each year to be approved by the Indian Central Cotton Committee. The Committee will also be prepared to consider applications for supplementary grants for cotton research on the approved programme, if necessary."

Mr Y G Deshpande expressed disagreement with the idea of incorporating in the resolution any promise of further grants but on the President's pointing out that Mr Burt's amendment was the substantive proposition before the house and on the Vice-President explaining his reason for accepting the amendment, Mr. Deshpande withdrew his objection. The resolution as moved by the Vice-President was put to vote and carried unanimously

Subject 21 -Meeting of the Indian Central Cotton Committee at Indore

In view of the fact that the Committee's resolution of July 1928 was inconvenient and impracticable, the *President* moved the following resolution —

RESOLUTION—"That the Resolution of the Committee passed at its meeting in July 1928 requiring a cold weather meeting to be held at Indore once in three years be rescinded. Meetings will be held at Indore as and when the Committee considers it desirable to do so."

This was seconded by Sardar Rao Bahadur Bhimbhai R Naik and carried unanimously. Thereafter Sardar Sampuran Singh invited the Committee to hold its next meeting at Lyallpur. Mian Nurullah and Rao Bahadur M. G. Deshpande supported the invitation, but the President thought that meetings outside Bombay caused a good deal of trouble in the past. However the proposal was carried, Mr. Ritchie and Dr. Burns dissenting.

Subject 22 — Madras Pempheres and Physiological Research Scheme— Reference from Special Meeting of Agricultural Research Sub-Committee

Mr Ramamurty, with a view to enable the Committee to see the subject in its true perspective reviewed the history of the scheme from its inception by the Madras Government since 1925 As they failed to secure a suitable Physiologist and a Biochemist from abroad, two officers of the Madras Agricultural Department were, with the approval of the Committee, selected for these posts and sent to England for training The Bio-Chemist returned from England a year ago The scheme was reviewed in August 1933, when an extension of the scheme for 5 years was recommended by the Sectional Sub-Committee presided over by This obtained the sanction of the Government of India which was in due course conveyed to the Madras Government Mr. Ramanathan's suggestion for transferring the work of physiology at Indore had obviously given rise to some misunderstanding, which led Mr Burt to suggest the discontinuance of the scheme for the first time ın June last Despite Mr Ramanathan's protest about misinterpretation of his merely general comment on the desirability of fundamental

work on cotton physiology being taken up at Indore and Mr Hutchinson's support that physiological work on Cambodia cotton could not be undertaken at the Indore Institute, Mr Burt still found it necessary to suggest in his note to the Special Meeting of the Agricultural Research Sub-Committee that the other part of the scheme wz, the bio-chemical basis of Pempheres resistance should continue at Combatore, but he was prepared to drop that part of the scheme which was mainly a Madras problem, especially in view of the fact that the senior officers who would have guided the work were not now available. Mr Ramamurty however assured the Committee that there was no question of dropping the scheme nor was the Madras Government finding any difficulty carrying out the work at Combatore To cast an aspersion on the competence of the trained junior officers now employed on the scheme or on the Cotton Specialist whose work had been appreciated by three successive Directors of Agriculture was a belated attempt nathan had already satisfactorily answered all the questions raised at the meeting The Committee had a moral obligation to see the scheme through after 8 years of consideration and to drop it now would indicate that the Committee did not know their own minds—a fact which would lose them the confidence of Provincial Agricultural Departments and Local Governments, without whose help the Committee could not hope to function successfully The issue now before them was not to drop the scheme, because the results so far obtained were unsatisfactory, but how the programme could be modified to achieve the objective in view Mr Burt at the outset made it clear that the senior officers he referred to were Dr Norris, Rao Bahadur Vishwanath and Mr Hilson who were not now in Madras He fully appreciated the work of Mr Ramanathan but strongly criticised the newly appointed Bio-chemist The Agricultural Research Sub-Committee recommended the discontinuance of the biochemical research on purely technical grounds that the results did not seem to justify further work As the Cotton Specialist had now reported that certain strains of Cambodia were not more tolerant to Pempheres, it would be sheer folly to waste more money on it. The Committee could not be expected to tax their limited resources to the utmost limit, irrespective of results obtained, as that would be a very heavy price to pay for the co-operation of the Provincial Agricultural Departments The Special Meeting of the Agricultural Research Sub-Committee had fearlessly reported on the merits of each scheme and he was of the opinion that physiological work of definite practical application could be started at once Mr Richards said that at the special and the last meetings of the Agricultural Research Sub-Committee, general opinion was in favour of discontinuing the scheme As an Entomologist he considered the scheme would produce no results of definite economic value to the In reply to Mr Ramamurty's plea that the scheme had not been criticised previously he thought the only reason for sanctioning such schemes without careful consideration was that the Committee at that time was rolling in money Dr Burns was in favour of dropping the scheme, if like the Surat Physiological Scheme, it was meant to investigate matters of purely academic value The President's suggestion that the subject should be gone through by a Sub-Committee composed of Messrs S V Ramamurty, V. Ramanatha Ayyer, J B Hutchinson and B C. Burt whose report should be referred to the next meeting of the Committee was agreed to.

Subject 23.—Technological Research—Progress Report* of the Director, Technological Laboratory.

This report which covers the period from November 1933 to May 1934 presents an account of the work done in the Laboratory during those seven months and shows that the Laboratory has once again maintained a high level standard of work done. Compared with the corresponding period of the last year, the total number of samples received at the Laboratory during the period under review showed a decline of 113 samples, the bulk of which were agricultural samples.

The President proposed the following resolution -

RESOLUTION—"That the progress report of the Director, Technological Laboratory, be approved."

This was seconded by Mr Burt and carried.

Subject 24 — Technological Research—Report of the Technological Research Sub-Committee

The report of the Technological Research Sub-Committee approving of the progress report of the Director of the Laboratory and also a grant of Rs 30,000 for obtaining a report from a Chemical Engineer in Europe of America through the High Commissioner for India on the prospects of the conversion of short staple cotton into suitable fibres was adopted

Subject 25 — Agricultural Research—General Progress Report

The Secretary's note on the present position of agricultural research and seed distribution schemes was recorded

Subject 26 - Progress Report on Surat Boll-worm Clean-up Scheme

The report of the Agricultural Research Sub-Committee suggesting an approach to the Government of Bombay to provide either a considerable sum of money for propaganda or for suitable administrative action in order to secure the continuance of the successful control measures under the scheme or to introduce legislation making the adoption of them compulsory was adopted

Subject 27 —Progress Report on Broach Cotton Breeding Scheme

The report of the Agricultural Research Sub-Committee noting with approval the efforts that are being made to combine by hybridization the high ginning qualities of Goghari and a Viramgam strain with the other required qualities of the Broach desi strain, B 18, was adopted

Subject 28 —Progress Report on Jalgaon Cotton Breeding Scheme.

The report of the Agricultural Research Sub-Committee stating that three promising strains of Neglectum have been selected for rigid yield trials during the next season was adopted

Subject 29—Progress Report on the Scheme for Survey of Small Leaf Disease in Cotton, Bombay Presidency

The report of the Agricultural Research Sub-Committee stating that the disease is of widespread occurrence and affects all other cottons except exotics and that its cause is not any parasitic organism was adopted

Subject 30 —Progress Report on Sind Physiological Research Scheme

The report of the Agricultural Research Sub-Committee stating that item 3 (b) is not a very promising line of work, since red leaf is due to a variety of causes and suggesting consultation with the Physiologist of the Punjab before taking up this item was adopted

Subject 31 -Progress Report on Madras Herbaceum Scheme

The report of the Agricultural Research Sub-Committee that the Secretary and Mr Hutchinson should be asked to visit Coimbatore and make recommendations regarding the future of the scheme, since the scheme is only sanctioned until May 1935, and the hybrid material has reached only F-4 generations was adopted Mr Hutchinson explained that the Secretary and himself had been asked to visit Coimbatore not because there was any fault to be found with the scheme but because the scheme was to terminate shortly and future programme had to be decided on Mr Ramamurty welcomed their visit

Subject 32 -Progress Report on Madras Fodder Cholam Scheme.

The report of the Agnicultural Research Sub-Committee concluding that the ill effects of *cholam* on the succeeding cotton crop are not dependent upon the quality of stubbles left in the soil, nor due to its heavy crop of fodder, and that manuring hastens ear production which is not desirable, was adopted

Subject 33 —Progress Report on Madras Pempheres and Physiological Research Scheme

Mr Ramamurty remarked that even though he could answer the criticism of the Agricultural Research Sub-Committee, he agreed that they might be referred to the Special Sub-Committee, which was decided upon.

Subject 34 —Progress Report on Madras Nadam Cotton Breeding Scheme.

The suggestion of the Agricultural Research Sub-Committee that Mr Hutchinson and the Secretary should visit the scheme and discuss plans with Mr Ramanathan when visiting the Herbaceum scheme was accepted and it was decided to await their report.

Subject 35 —Progress Report on the Punjab Botanical Research Scheme.

The report of the Agricultural Research Sub-Committee noting with satisfaction the evolution of 3 useful strains of American cotton, one of which N.T 36-F is of unusual promise, and selection of 5 more new strains of American and one of desi cotton for experiments during the year under review was adopted

Subject 36 —Progress Report on the Punjab Pink and Spotted Boll-worm Scheme

The report of the Agricultural Research Sub-Committee was adopted

Subject 37 —Progress Report on the Punjab Cotton White Fly Scheme.

The report of the Agricultural Research Sub-Committee suggesting that items 1 (1), 1 (3), (iv), (v), (ix), (x), (xi) and (xiii) of the programme of work for 1934-35 should be omitted since either they were academic or impracticable and outside the scheme and that in item 1 (2) it would be better to determine the effect of differential irrigation on infestation and yield of cotton was adopted

Subject 38 —Progress Report on the Punjab Spraying Trials Scheme

The report of the Agricultural Research Sub-Committee noting the non-mention of the actual yields in sprayed and unsprayed plots and emphasising the need for full details of the individual yields in the next report in order that their statistical significance may be considered was adopted

Subject 39 -Progress Report on the Punjab Root Rot Scheme.

The report of the Agricultural Research Sub-Committee suggesting that in view of the fact that the scheme has only one year more to run, items 8 to 12 of the programme of work may be omitted and that instead the results so far obtained be confirmed and attention concentrated on determining whether any soil treatment reduces *Rhizoctomia* attack and whether *Rhizoctomia*-resistant strains of cotton exist since 2 species of the *Rhizoctomia* are regarded as primarily responsible for the disease, was adopted.

Subject 40 —Progress Report on the Punjab Defibrating and Delinting Scheme

The report of the Agricultural Research Sub-Committee saying that the machines have only been recently received and the work done is of no special value was adopted

Subject 41 —Progress Report on the Central Provinces Botanical Scheme

The report of the Agricultural Research Sub-Committee was adopted.

Subject 42 —Final Report on the United Provinces Entomological Research Scheme

'In reply to Mr Ramamurty's enquiry as to whether the report had been completed and when it might be expected, Mr Richards said that the material for the report was ready and he hoped to be able to submit it by the next meeting Material facts were contained in the reports submitted to the Committee from the start to the termination of the scheme and it now remained to write up the results for publication To a further enquiry as to whether the materials referred to were those submitted by him before 1931 when the scheme was extended, Mr Richards explained that the writing up consisted of assembling and selecting the vast amount of data collected The final extension of M1 Nangpal's term had been to assist in assembling and arranging the The President enquired if Mr Richards was satisfied that Mr Nangpal had used the extended period usefully in helping him to write up the report Mr Richards explained that the first year of Mr Nangpal's extension was almost exclusively devoted to clearing up points in the bionomics of the boll-worm and the second was spent partly on this work and partly on assembling the data collected during the investigation. He certainly was of the opinion that Mr. Nangpal had profitably spent his time. He hoped to find time on the return of the Director of Agriculture from leave and get on with the work of writing up the report Mr Ramamurty asked if Mi Richards could give an approximate date for the submission of the report Mr Richards questioned as to whether it was proper for members of the Committee to expect a Government servant who was supervising a Committee scheme, in addition to his own work, to give a fixed date. He nevertheless hoped to find time and get the work written up during the next cold weather The President then raised the question of general principles whether the Committee was entitled to a final report or not While the Committee ought not to depend upon the goodwill of a Government servant for a final report, it ought not to pretend to get out of Mi Richards what he was not bound to give Two years were a fairly long time to get the report ready but if the report was a matter of courtesy the matter had better be dropped Mr Burt said that hitherto the Committee stipulated that everyone accepting a grant should furnish annual progress reports but when the last report came in the Committee invariably considered the best method of publishing the entire scientific and technical results, just as the Committee had lately considered the desirability of publishing the Surat Physiological Scheme as a monograph In the case of the United Provinces Pink Boll-worm Scheme the Committee had already received annual reports containing material facts Mr Nangpal during the first year of extension had completed a minor portion of the scientific work and his subsequent period was utilized for assembling scientific data for preparation of the report The President remarked that in that case the Committee stood to gain nothing by having extended Mr Nangpal's services, to which Mr Richards replied that he would be happier if the Committee could advise the United Provinces Government to put him on special duty, like the officers engaged on Surat and Dharwar Schemes.

to write up the report Lala Shir Ram was of the opinion that if the Committee had no right to ask for the report it had better not spend more money for the further extension of the scheme Mr N M Deshmulh contended that even if ordinarily the Committee had no right to a final report it had a right in this case as the scheme had been extended for the specific purpose. He wondered what the Publicity Officer was going to do in the United Provinces if the collected data was not available in the form of a final report. Dr. Burns said that in the case of the Surat Physiological Scheme and the Dharwar Wilt Scheme the Committee had willingly sanctioned time and money for writing up their reports by the officers in charge of the respective schemes. For a body with international reputation like the Indian Central Cotton Committee it was essential that its research work should be put together in a final form, properly documented and published so that for all time it might remain a work of reference in other parts of the world. In the case of the two Bombay Schemes referred to above, actual research workers had been entrusted with the work of writing up the results and given special extensions to write them up The Committee, to his mind, had the right to call for the report, and he pleaded that more time might be allowed to enable Mr. Richards to write up the report The President observed that the Secretary should in future, while communicating to the local Governments the Committee's sanction to schemes, stipulate not only for annual reports but for full reports. At present it was not clear whether the Committee was exacting final reports with legal rights or the local Governments were fulfilling their obligations. In this case the Committee had a right to ask for the report, and he requested Mr. Richards to submit the report before the next meeting Mr Richards conceded that the Committee had the right to expect the work to which it had contributed and he was himself very anxious that scientific results obtained by him should be enculated. It was agreed that Mr. Richards should submit his report before the next meeting Mr Burt suggested that in future the Committee should see that a final report was submitted within a few months after the completion of a scheme and that all the scientific data obtained during the whole term of the scheme for publication in a suitable manner was secured This was agreed to

Subject 43 —Progress Report on the scheme for survey of cottons in Robilkhand and Bundelkhand United Provinces

The report of the Agricultural Research Sub-Committee on the Progress Report showing the discovery of a particular type of new plant having the external characters of G neglectum roseum with better fibre length throughout the area surveyed and suggesting examination for its purity was adopted

Subject 44 —Annual Report of the Institute of Plant Industry, Indore

The report of the Agricultural Research Sub-Committee was adopted

Subject 45 —Progress Report on Hyderabad Botanical Research Scheme

The report of the Agricultural Research Sub-Committee suggesting that item 2 in the programme of the scheme should be decided on in consultation with Rai Saheb Kalidas Sawhney on his return, since the work would be too much and would necessitate cuitailment of programme in other aspects, was adopted

Subject 46 —Progress Report on Hyderabad Pink and Spotted Boll-worm Scheme

The report of the Agricultural Research Sub-Committee on the progress report on this scheme which showed that Pink Boll-worm was a serious pest of cotton in Hyderabad State, and that critical information regarding this could be obtained only by a fully trained and experienced Entomologist in two years, who should carry out his work under black soil conditions, was adopted

Subject 17 -Progress Report on Hyderabad Cotton Survey Scheme

The report of the Agricultural Research Sub-Committee was adopted

Subject 48 -Progress Report on Bikaner Gang Can'll Scheme

The report of the Agricultural Research Sub-Committee on the Progress Report showing that of all cottons so far tested Mollison is best suited to the agricultural conditions of Ganganagar was adopted

Subject 19 -- Progress Report on Baroda Root Rot Scheme

The report of the Agneultural Research Sub-Committee considering a species of *Rhizoctonia* as the main cause of the disease and noting the selection of plants less susceptible to disease was adopted

Subject 50 —Progress Report on Burma Cotton Improvement Scheme

The report of the Agricultural Research Sub-Committee recommending that the scheme should be continued to its sanctioned period but no extension would be given to it was adopted

Subject 51 — Seed Distribution and Extension Schemes—Progress Report on Hubbi Scheme

The report of the Agricultural Research Sub-Committee was adopted

Subject 52 —Seed Distribution and Extension Schemes—Progress Report on Gadag (Extension) and Gadag (Supplementary) Schemes

The report of the Agricultural Research Sub-Committee was adopted

Subject 53. - Seed Distribution and Extension Schemes - Progress Report on Surat Scheme

The report of the Agricultural Relearch Sub-Committee was adopted.

Subit of 51 Seed Distribution and Extension Scheme Progress Report on Khandesh (Banilla) Scheme

The suggestion of the Agricultural Recarch Sub Committee that the spinning tests in Banilla should be supplied along with the progretion to was adopted.

Subm ct 55 - Seed Distribution and Later-ion Scheme Progre Report on Athani Scheme

The Report of the Agricultural Research Sub-Committee , , , adopted

Subject 56 - Seed Detribution and Later um Scheme - Prome - Report on Sind Scheme

The Report of the Agricultural Research Sub-Committee uggs ting the desirability of malling attempts at assemly a date a possible, to fix zones for the different cottons to be recommended, and recommending the continuation of the propaganda scheme was adopted

Subject 57 - Seed Distribution and Extension Scheme - Madras (Tiruppur) and Co 2 Schemes.

The Report of the Agricultural Research Sub-Committee recommending that these progress reports should be as concise as possible consistent with clearness and admitting the satisfactory worling of the scheme was adopted

The attention of the Committee being drawn by Mr Ramanurty to the fact that the Tiruppur Co-operative Society worked so successfully that it did not ask for the subsidy granted by the Committee, the President congratulated its leader, Mr Ramaswami Gownder on his ability to conduct the affairs of the Society, so successfully

Subject 58 — Seed Distribution and Extension Scheme:—Progress Report on H1 Scheme

The Report of the Agricultural Research Sub-Committee recommending its closure and starting of a fresh scheme only if it overcomes all the difficulties encountered in the past was adopted

Mr. Ramamurty informed the Committee that in anticipation of its sanction he had already closed the H1 scheme and hoped to place a fresh scheme next year

Subject 59 —Seed Distribution and Extension Schemes—Progress Report on the Central Provinces (Verum) Scheme

The Report of the Agricultural Research Sub-Committee approving of the very satisfactory progress made by this scheme and recommending that it should be combined with the new extension scheme (Subject 87), as suggested by the Director of Agriculture, was adopted

Subject 60 —Seed Distribution and Extension Schemes—Progress Report on Hyderabad Scheme

The Report of the Agricultural Research Sub-Committee approving of the proposal of the Hyderabad Agricultural Department to organize their own local seed production to obviate the necessity of importing large amounts of seed was adopted

Subject 61—Seed Distribution and Extension Schemes—Statement of costs for cotton ginned at the Lyallpur Ginnery

The Report of the Agricultural Research Sub-Committee, noting the total cost of ginning one maund of cotton as Re 0-2-9 for saw gin and Re 0-7-10 for roller gin was adopted

Subject 62 —Seed Distribution and Ertension Schemes—Progress Report on Baroda Scheme

The Report of the Agricultural Research Sub-Committee suggesting that a larger area than that proposed in the scheme should be controlled since Baroda has nearly two lakes of acres under cotton was adopted

Subject 63—Proposed New Agricultural Research Schemes—Scheme for intestigation into Root Rot of Cotton in Gujerat

The Report of the Agricultural Research Sub-Committee suggesting the undesirability to start another scheme when schemes on the same subject are already in progress in the Punjab and Baroda State was adopted

Subject 64 —Proposed New Agricultural Research Schemes—Scheme for study of "Lang" Caterpillar pest in Gujerat

The Report of the Agricultural Research Sub-Committee saying that this is not a cotton problem and therefore not suitable for a grant from the Indian Central Cotton Committee was adopted

Subject 65—Proposed New Agricultural Research Schemes—Scheme for survey of Goghari cotton in Gujerat

The Report of the Agricultural Research Sub-Committee recommending its sanction for five years at an estimated cost of Rs 5,000, since the scheme is a necessary corollary of the Committee's policy to grow only 1027 ALF south of Nerbudda, was adopted.

Subject 66 -Proposed New Agricultural Research Schemes-- Scheme for survey of Goghari cotton in Baroda State

The recommendation of the Agricultural Research Sub-Committee to sanction this scheme for five years at an estimated cost of Rs 5,000 was adopted

Subject 67—Proposed New Agricultural Research Schemes—Scheme for Cotton Jassid Investigation in the Punjab

The Director of Agriculture, Punjab, agreeing with the Agricultural Research Sub-Committee that for the present this scheme can be carried on by the existing entomological staff at Lyallpur, the scheme was withdrawn

Subject 68—Proposed New Agricultural Research Schemes—Scheme for investigation into "Red Leaf" disease of Doddahathi (American) cotton in Mysoic

Pointing out the possibility of considerable increase in the area under Dharwar-American cotton in the Mysore State in the event of "Red Leaf" being brought under control, Mr Yegna Narayana Iyer pleaded for a grant of Rs 10,000 per annum for 5 years, to chable the Mysore State to carry on the work. The State had been co-operating with the Committee from the very inception of the Committee and commanded all facilities of equipment and staff, for central research of the disease. The President in reply drew attention to the Agricultural Research Sub-Committee's Report which had recommended postponement of the scheme and assured the previous speaker that there was no question of a slur on the Mysore Agricultural Department. Mr Burt pointed out that as stated in paragraph 2 of the note on the subject, it was only on technical grounds that the scheme was left over till the next meeting, with a view to enable scattered information being collected in the meanwhile. The Report of the Agricultural Research Sub-Committee was adopted

Subject 69—Proposed New Seed Distribution and Extension Schemes— Wagad Seed Distribution and Extension Scheme

The Report of the Agricultural Research Sub-Committee suggesting that Mr Patel be asked to put up a modified scheme to cover the initial stages of testing and distribution and recommending to the Committee for giving help in this scheme was adopted

Subject 70 —Report of the Agricultural Research Sub-Committee The President proposed the following resolution —

RESOLUTION—"That the report of the Agricultural Research Sub-Committee be adopted."

This was seconded by Sardai Rao Bahadur B R Nail and carried

Subject 71 -Report of the Standing Finance Sub-Committee

- (a) Balance Sheet as at March 31st, 1934
- (b) Final Accounts, 1933-34
- (c) Revised Estimates 1934-35
- (d) Budget for 1935-36 (Government serients)

Rao Bahadur M G Deshpande diew attention to the large number of new schemes sanctioned at this meeting and suggested that the Standing Finance Sub-Committee should provide morey for these schemes only in order of priority to be decided upon by that Sub-Committee, otherwise the reserves of the Committee would soon be aepleted. The President suggested that the drawing up of the priority list be left to the Standing Finance Sub-Committee, which was agreed to Seth Isserdas Variadmal suggested the formation of small Provincial Sub-Committees to supervise the provincial schemes, to which view Mi Built replied that this point had already been considered

The Committee had made a recommendation to all local Governments that members of the Indian Central Cotton Committee should also be made members of the Piovincial Cotton Committees and this recommendation was given effect to in all provinces The Committee's object would be well served if Provincial Cotton Committees would take an active interest in research as well as trade matters The Sind Cotton Committee was a very live one and he felt suie Mi Jenkins will give it all liberty to discuss the Sind research schemes remetted the lack of control over the Committee's budget instancing the way in which money had been allowed to accumulate at Indore for several years for no obvious purpose. He suggested that the budgets and the balance sheets should be presented in an intelligible and more straightforward manner and saw no necessity for providing expenditure which was not being incurred, as for example, the Deputy Secretary's post which should be filled Saidar Sampuran Singh said that the Committee had better leave research workers to do then work peacefully without the supervision of a Sub-Committee of laymen Mi Y G Deshpande suggested that the Directors of Agriculture might take in their confidence members of their Provincial Cotton Committees when a scheme was to be sanctioned, as it was essential that local members should be satisfied on the benefits to the province of a particular scheme before it was submitted to the Indian Central Cotton Committee. He suggested that the Provincial Cotton Committee of the Central Provinces might meet more frequently to discuss every new scheme and offer advice Mi Chunilal B Mehta was of the opinion that local committees would be beneficial in that their members would bring to the notice of Directors of Agriculture what the general public, trade and the agriculturist thought about a particular proposal. He was in favour of more time being allowed to the consideration of this subject so that it might be brought before the next meeting Mi Mahta, as Secretary of the Central Provinces Provincial Cotton Committee said that the numbers of

meetings depended entirely on the number of suitable subjects to be If no suggestion was received and the Department had no important items on the agenda no meeting was held Referring to a remark made by a member that they might inspect and report on the work done in the provinces, he would like to enquire how often did Mr Deshpande take the trouble of paying a visit to the Research Laboratory and the Farm when he came to Nagpur Dr Burns thought there were already sufficient Committees The Indian Central Cotton Committee amply fulfilled the object Seth Isserdas Varindmal had in view The disagreement which the Committee had over a phrase in the findings of the Special Meeting of the Agricultural Research Sub-Committee under Subject 19 demonstrated how the different interests even on the Indian Central Cotton Committee could differ. The Committee provided a common platform for the co-ordination of different interests and any The President further division would lead to narrow provincialism suggested that the first proposal of the appointment of Provincial Committees to supervise schemes might be referred to the Agricultural Research Sub-Committee for report and the second one pertaining to the presenting of the budget be referred to the Standing Finance Sub-Committee for report Seth Isserdas Varindinal said that the Sind Cotton Committee had full confidence in Mr Jenkins He only wished to point out that the Committee which controlled the purse could have its voice heard more effectively than the Sind Cotton Committee. Sardar Rao Bahadur B R Nail thought that the representatives of the trade and growers should know what was going on in their respective districts and although he knew that no local Government would allow another body to supervise the work of their agricultural department yet members should have the privilege of acquainting themselves with the work done in their respective areas, just as members of Legislative Councils were entitled to local information, so that they may pass it on to the agriculturist of the locality. Mr. Y. G Deshpande took exception to the remarks of Mr Mahta and said that members could only be expected to give their views when called upon to do so and not suggest subjects to which Mr Mahta replied that every opportunity was given at the Provincial Cotton Committee's meetings to discuss the schemes in progress and every scheme was put before the Provincial Cotton Committee which met at least once a year

The following resolution was proposed by the *President*, seconded by *Mr Chunilal B Mehta* and carried unanimously —

RESOLUTION—"That the Report of the Standing Finance Sub-Committee be adopted."

"That the Revised Estimates for 1934-35, as now amended, be approved."

"That the Budget for the pay of Government Officers for 1935-36 be approved."

Subject 72.—Proposed inclusion of Pulgaon under CP No 1 tenderable places

The President's suggestion was agreed to Mr N M Deshmukh stated that the agriculturists, cotton dealers and the Municipality of

Pulgaon were losing from Rs 50,000 to Rs 80,000 annually as Pulgaon, unlike Wardha, had not been recognised as a CP No 1 tenderable station, instead of a CP No 2 station as it now was

As they were on the same side of the river Wardha, and the quality of the soil and the cotton grown there were about the same he saw no reason for differentiation but on appealing to the East India Cotton Association he was informed that Pulgaon cotton was inferior to that of Wardha To disprove this belief he asked for samples from both places to be tested at the Technological Laboratory but the East India Cotton Association relied on the valuation of graders and did not want tests at the Laboratory, even though he pointed out from actual experience that the reports from the latter were more reliable than reports from the former He therefore moved the following resolution —

"That the East India Cotton Association be requested to place the Pulgaon cotton as C.P. No. 1."

Rao Bahadur G R Kothare seconding the resolution said that the position was anomalous Pulgaon cotton was classed as CP No 2 while sold there, but when carted to Wardha it was classed as C P No 1 resulted in the migration of a fair quantity of this cotton every year to Mr Deshmukh's proposal to decide the classification of Pulgaon on the results of Laboratory tests was a reasonable one and should be accepted by the East India Cotton Association Mr Chumlal B Mehta said that the question was of marketing and not of growing and had received the careful consideration of the East Cotton Association The trade thought the Wardha cotton superior to Pulgaon and paid higher prices for it Laboratory tests were not always uniform and, on the contrary, the graders were sometimes able to judge cotton much better than tests at the Laboratory The passing of a resolution amounts to pressure being brought on the East India Cotton Association, it was enough if a copy of the discussion was sent to the Association for information $M_{l}M_{l}D_{l}$ Williams agreed that the matter be left to the East India Cotton Association to deal with Mr Mahta confirming Mr Deshmukh's statement regarding the quality of Pulgaon cotton said that though Pulgaon itself grew as good a cotton as any part of the Central Provinces, it was easily accessible to inferior Berar cotton and for this reason was classed as CP No 2. Rao Bahadur M G Deshpande testified to the fact that the cotton grown at Pulgaon was as good as CP No 1, but the cotton carted from the other side of the river was however inferior Mr Ritchie explained that it was because Berar cotton came to Pulgaon that Pulgaon was classed as CP No 2 even though the cotton grown on Pulgaon area was in reality CP No Rao Bahadur Kothare asked if as stated, Arvi being close to CP No 1 area there was anything to prevent Berar cotton being taken to Wardha to fetch a better price, and when such cotton from Arvi was taken to Wardha, the same passed as CP No 1 Mr N M Deshmukh fully agreed with the suggestion of Mr Chunilal B Mehta and begged leave to withdraw his resolution It was decided to send a copy of the discussion to the East India Cotton Association

Subject 73 - Proposed New Agricultural Research Schemes Scheme for defibration of cotton seed in the Bombay Presidency.

The Report of the Agricultural Research Sub-Committee recommending the provision and installation at Palej of the defibrating reachine from the funds of the Indian Central Cotton Committee at an initial outlay of Rs 3,700 and recurring annual expenditure of Rs 4,750 for a period of three years and accepting the kind offer of the Vice-President for the free supply of seed and power as required vas adopted

Subject 74 —Progress Report on Plant Puller Propaganda Scheme in Surat and Broach Districts

The Report of the Agricultural Research Sub-Committee was adopted

Subject 75 —Supply of N. R. and Cambodia cotton seeds in the Southern Division of the Bombay Presidency

The Secretary's note was recorded

Subject 76 —Draft Rules under the Central Provinces Cotton Market Act

Rao Bahadar Kothare, while thanking the Government for emending the Cotton Market Rules, said that the attention of the local Government should be drawn to the need for sending such matters sufficiently early to enable the Committee to send its of mion before they were exceed. This was seconded by Mr. Burt and accordingly it was decided that the local Governments be requested to and such rules to the Committee early enough to permit of their discussion at the full meeting and an opinion offered.

Subject 77 —Draft Rules under the Madras Commercial Crops Markets

The Secretary's note saying that the Madias Government propose to adopt 28 lbs maund weight and the Bombay candy of 781 lbs as standard units for all cotton transactions in the Presidency was recorded

Subject 78 —Universal Standards for Indian Cotton—Progress Report

Seth Isserdas Varindmal complained that since last he served on the Standards Sub-Committee, the Local Sub-Committee had changed its constitution in such a way so as to exclude Karachi members when Bombay cottons were to be considered. He saw no reason why Bombay alone should have a hand in the preparation of all standards and not Karachi. Mr Chumlal B. Mehta explained that Bombay unlike Karachi was interested in all cottons and had therefore to be on the Standards Sub-Committee when Sind and Punjab cottons as well as other cottons were being dealt with. The Indian Central Cotton Committee had met the requirements of Karachi by providing representation for them when standards of cottons in which they traded were being prepared. In reply

to Seth Isserdas Varindinal's remark that Karachi might be left alone to pass its own standards, Mr Chunilal B Mehta explained that the Standards Sub-Committee was set up by the Indian Central Cotton Committee and the Imperial Council of Agricultural Research and not by the East India Cotton Association Mi Burt explained that the reason the Committee took an interest in this matter was the divergence in the same standard prepared by Karachi and Bombay which the Committee was to reconcile Two representatives each of the Karachi and East India Cotton Associations, with an independent member nominated by the Imperial Council of Agricultural Research constituted the Standards Sub-Committee Two series of standards were prepared in India, one at Bombay and the other at Karachi and it was intended to secure uniformity As for a representation of the growers' interest on the Standards Sub-Committee, the matter might be referred to the Sub-Committee although he himself saw no need for it, for consideration as to whether the membership of the Sub-Committee might not be limited to recognized associations Mi Traces urged that as all Karachi cottons were dealt with under the rules of the East India Cotton Association it would be difficult to get it to accept standards which they had no hand Surely the East India Cotton Association would not grudge Karachi having permanent representation when the Karachi market became larger The Vice-President, referring to Seth Isserdas Varindmal's contention why Karachi should be made to invite Bombay for the preparation of Karachi standards, when the latter did not invite the former for the preparation of Bombay standards pointed out that Karachi had of its own accord sought Bombay's help in the preparation of its own standards for Sind, Punjab and Bengal cottons Bombay had been preparing standards long before Karachi had any The idea was not to set up competition between the two centres but to utilise local expert knowledge in the preparation of standards case of Sind cottons, representatives of the Karachi and Bombay associations would meet But in the case of, say, Berar or Central Provinces cotton the Local Sub-Committee decided only Bombay and one or two growers and one permanent local middleman nominated on the recommendation of the Director of Agriculture would be called upon to have a hand in the matter While welcoming any definite constructive proposals, he advised Seth Isseidas Varindmal to fundamentally revise his ideas of universal standards Mi Travers thought a middleman and a grower would serve the purpose better than two growers Deshpande supported the Local Sub-Committee's recommendations, common standards for the whole of India were really beneficial and on that score must be cheerfully accepted by all

The following resolution proposed by the President and seconded by Mr Chunilal B Mehta was carried —

RESOLUTION—"That the Indian Central Cotton Committee confirms the action taken by the Local Sub-Committee in connection with the adoption of Universal Standards for Indian cottons and that the procedure indicated in paragraph 6 of the Secretary's note be approved." Superior 79. Extension of cotton cultivation in Bengal

Mr Guha regretted that no attempt had been made to grow staple cotton in Bengal Concidering the fact that Bengal once produced the best cotton in Index from which the famous Dacca muslims were made he moved the following resolution, reconfed by Mr Nizam-nd Din Hyder

"That the Committee should grant to Bengal a small grant of Re. 3,000 per annual for five reason to find out whether staple coffons can be grown these and the enoffers be appointed to make a currecy in this se pect."

Dr Burns proposed that the resolution be referred to the Aurectitur. I Research Sub-Committee for consideration. Mr Hitely on drevattention to the annual report of the Department of Agriculture, Bagal for 1925-26 cited in the secretarial note, and proposed that a piece of the Dacca muslim offered by the Nawab Bahadur of Dacca be obtained and tested at the Technological Laboratory and results placed before the Agricultural Research Sub-Committee. He was an ious to have the fibre properties of the cotton used in Dacca muslim. The Provider suggested referring the matter to the Agricultural Research Sub-Committee for report and Mr Guha be invited to attend its next meeting when the question was discussed. The was agreed to

Subject 80 - Examination of the possibility of using those stay's Irdia cotton for the manufacture of artificial self

Lala Shri Ram said that the Japanese borrott of Indian cotton had shown the extreme importance of finding out other u — for the Indian short-steple cotton

Mr. Burt and that the proposal was that the most modern type of artificial silk and its suitability to India should be studied. This type of rayon resembled cotton in many respects, other countries had begun to do it and if India did not follow their example and make stapt libre, she would soon be importing it

The recommendation of the Technological Research Sub-Committee that a sum of Rs 30 000 be sanctioned for examining the practicability of manufacturing artificial staple fibre from Indian short staple cotton was adopted

Subject 81 - Scheme for the propagation of C 492 cotton in the Hardo and neighbouring districts of Lucl now and Situput, United Provinces

The Report of the Agricultural Research Sub-Committee recommending that it should be considered by the Standing Finance Sub-Committee in relation to the financial position was adopted

Subject 82.—Proposal for provision of funigation facilities at Calcutta

Mr Guha urged that the Government of India be approached to provide facilities for funigation of American cotton at Calcutts on economic grounds Mr Burt thought that the expenditure involved

would be excessive for the small consumption of cotton in Calcutta, and the Government of India would naturally desire to see that the scheme was self-supporting as at Bombay. The *President* confirmed the views of the previous speaker and thought their case too weak to make any impression on the Government at present Mr Y G Deshpande said that Indian mills should make greater use of Indian long staple cotton, in view of the efforts that are being made to grow it in Sind and elsewhere.

Subject 83 —Giant of honorarium for preparation of Indices of Minutes of the Committee and its Sub-Committees

The President proposed the following resolution:

RESOLUTION—"That the Secretary be authorised to grant honoraria to the staff of his office for the preparation of indices of Minutes of meetings of the Indian Central Cotton Committee and its various Sub-Committees up to a maximum of Rs. 50 for each year's Minutes."

This was seconded by Rao Bahadur Kothare and carried

Subject 84 — Proposed introduction of a common unit for the purchase of seed cotton throughout India

The President proposed the following resolution —

RESOLUTION—"That the Indian Central Cotton Committee desires to express its thanks to the Governments of Bombay, Madras, Punjab, United Provinces and Central Provinces for the steps taken by them to give effect to the Committee's recommendations for the introduction of common units of weight for cotton transactions. The Committee would further urge on the Bombay Government the desirability of standardising also the Bombay candy of 784 lbs. as a unit of weight in the Presidency, particularly as this unit is being adopted in practically all the other major cotton-growing provinces in India."

This was seconded by Mr Chunilal B Mehta and carried

Subject 85 —Broadcasting† of Commercial News on cotton

Mr N M Deshmukh moving the following resolution deplored the discontinuance of commercial news which the Bombay Broadcasting Station had hitherto transmitted and which was of great value to the agriculturist in the up-country. He appealed to the Indian Central Cotton Committee to support the East India Cotton Association's representation on this matter—

RESOLUTION—"That the Indian Central Cotton Committee requests the Government of India to resume the broadcasting of all commercial news connected with cotton in the mornings particularly through the Bombay Radio Station."

^{*} Appendix IX (page 128) † Appendix X (page 129),

Rao Bahadur Kothare wanted to know how in the absence of broadcasting could Rule 86 of the Central Provinces Cotton Market Act be expected to function, in the absence of previous day's closing rates?

Mian Nurullah deprecated the action of the Government of India especially at the time when the Punjab Government was launching a campaign of broadcasting the latest market news to villages. The Vice-President stressed the importance of broadcasting in India for the dissemination of important items of news, such as cotton news. It showed in a bad light the motives of the Government of India which were apparently merely for a new source of revenue Briefly stated the action of the Government amounted to this They had discontinued the broadcasting owing to the loss of revenue to the Telegraph Department from various interests who used to get the news by telegrams from Bombay The same department which was amassing crores of rupees from postal, telephone and telegram charges could hardly be justified in curtailing broadcasting because of a slight loss in telegraph revenues. Apparently the Government had not considered the amount of loss on experiments incurred by Bombay investors before they took it over and simply looked upon it as a money-making machine. He insisted that middle class up-country merchants and zamindars owned sets mainly for the purpose of getting cotton prices He was strongly of the opinion that commercial quotations ranked first before any other news on the radio programme He knew of cases when important telegrams were delayed by subordinate servants of the Telegraph Department for gratuities on Diwali days He urged the President to appraise the authorities at Simla of the urgent need for the restoration of the broadcasting system Mr M D Williams supported the proposal from his experience of the usefulness of broadcasting commercial news m the Punjab and advocated the broadcasting of Karachi prices along with Bombay prices, as this would be of great service to cotton interests of that province Messrs Plummer and Isserdas Varindmal supported the resolution Sardar Sampuran Singh was also of the same opinion and stigmatised the Government's action for revenue purposes as a petty Mr Chunilal B Mehta pointed out that telegrams were undependable as they were often received too late to be of use Messrs Salimath and B S Patel likewise testified to the eagerness of the farmers to get the latest radio news before they sold their cotton Mr Y G Deshpande stressed the importance of radio commercial news to villages cut off from telegraph communication and to the general scheme of village uplift Dr Burns stated that in his annual report this year he had deliberately drawn the attention of the Government of Bombay to the usefulness of radio Mr Ritchie was also in favour of broadcasting and would like to see receiving sets in all the Central Provinces markets Sardar Rao Bahadur Bhimbhai R Naik thought that broadcasting would save the Indian peasantry from exploitation by middlemen and he failed to understand such action from a Government who pretended to be their well-wishers The action of the Government, he thought, jeopardized the interest of the cultivator who was ensured fair prices for his cotton by the daily publication of central market prices. Mr. Nizam-ud Din Hyder

likewise urged the restoration of the radio system, especially in view of the Hyderabad Government having in contemplation a broadcasting scheme for rural uplift work. Mr Sane from his own experience of villages in the Baroda State was convinced that broadcasting sets were mainly used for commercial news without which these sets were considered to be of little use

Subject 86 —Proposed new Agricultural Research Schemes—Plant Puller Propaganda Scheme in Baroda

The Report of the Agricultural Research Sub-Committee, approving in general the scheme but suggesting that the pay of the Graduate Assistants should not exceed Rs 70 per mensem and that after the first year of intensive propaganda a large number of Kamgais be employed instead of the more expensive fieldmen and recommending the adoption of the scheme at an estimated total cost of Rs 9,380 for two years, was adopted

Subject 87—Proposed new Seed Distribution and Extension Schemes— Scheme for the marketing of Verum cotton

The Report of the Agricultural Research Sub-Committee recommending an additional grant of Rs 1 35,022 spread over a period of 5 years and 2 months in addition to the grant already made at the last meeting of the Committee was adopted

The *President* thanked the members for the courtesy and patience and the extreme goodwill shown to him which had enabled the Committee to get through the heaviest agenda they ever had in record time

Sardar Rao Bahadur Bhimbhai R Nail proposed a very hearty vote of thanks to the President.

This was carried with acclamation

R D MIHRA,

Publicity and Propaganda Officer.

RESOLUTIONS

Appointment of cotton growers' representatives on the Committee to the Board of Directors of the East India Cotton Association

1 "That the existing three members be re-elected"

Representation of cotton interests in Karachi on the Indian Central Cotton Committee

2 "That the Indian Central Cotton Committee accepts Mr. Jenkins' proposal as contained in the Secretary's Supplementary note"

Resignation of Mr D. F Kapadia, Assistant Technologist, Technological Laboratory

3 "That a Sub-Committee consisting of the President, Vice-President, Khan Bahadur Sardar Habibullah and Rao Bahadur M G Deshpande be appointed to examine the allegations made by Mr D F Kapadia and to report to the next meeting of the full Committee"

Licensing of gins and presses

4 "That the Indian Central Cotton Committee desires to remind the Government of India of its Resolution passed at its meeting on the 29th August 1933 and wishes to draw the attention of Government to the dangerous increase in the evil of watering of cotton which calls for immediate action in the interest of Indian cotton"

Cultivation of improved varieties of cotton in the Barrage areas of Sind

5 "That the Indian Central Cotton Committee endorses the resolution of the Special Sub-Committee regarding the establishment of a compact block of long staple cotton in Sind and approves generally of the proposals of the Chief Agricultural Officer in Sind'

Campaign for extension, seed distribution and marketing of pure Sind-American cotton

6 "That the various suggestions of the Sind Cotton Committee be referred back to the Chief Agricultural Officer in Sind for reconsideration by the Sind Cotton Committee with the object of ascertaining to what extent any of the suggestions made could be given effect to"

Half-yearly Report of the Publicity and Propaganda Officer

7 "That the Report of the Publicity and Propaganda Officer be adopted"

Report on the Funngation of American Cotton

- S "The Indian Central Cotton Committee approves of the action taken by the Standing Finance Sub-Committee in regard to the question of the reduction of the Bombay Port Trust share of fumigation charges and the revision of the pay and allowances of the fumigation staff"
 - "The Indian Central Cotton Committee requests the Government of India to sanction a rebate of eight annas per square bale and five annas per round bale on the fumigation fee paid on American cotton fumigated at square bale and round bale rates during the fiscal year 1933-34"
 - "The Indian Central Cotton approves of the action taken by the Local Sub-Committee in recommending to the Government of India the abolition of the special fee of Rs 10 for sample bales"

Report of the Cotton Forecast Improvement Sub-Committee

9 "That the Report of the Cotton Forecast Improvement Sub-Committee be adopted"

The Institute of Plant Industry, Indore—Future Policy

- "This Committee resolves that the Governing Body of the Institute of Plant Industry, Indore, be informed—
 - (1) that the representation of the Indian Central Cotton Committee on the Governing Body each year should be in proportion to the contributions received in the preceding year from the Indian Central Cotton Committee and the States taking an interest in the Institute,
 - (2) that the accounts of the Institute should be audited by the Auditor General as long as contributions from the Indian Central Cotton Committee continue,

(3) that the Indian Central Cotton Committee will contribute to the Institute for a period of three years from 1935-36 a minimum sum of Rs 85,000 per year for purposes of research work in cotton—the programme for such work for each year to be approved by the Indian Central Cotton Committee The Committee will also be prepared to consider applications for supplementary grants for cotton research on the approved programmes, if necessary ".

Meeting of the Indian Central Cotton Committee at Indore

"That the Resolution of the Committee passed at its meeting in July 1928 requiring a cold weather meeting to be held at Indore once in three years be rescinded. Meetings will be held at Indore as and when the Committee considers it desirable to do so."

Progress Report of the Director, Technological Laboratory

"That the Progress Report of the Director, Technological Laboratory, be approved"

Report of the Technological Research Sub-Committee.

13 "That the Report of the Technological Research Sub-Committee be adopted"

Report of the Standing Finance Sub-Committee

- 14 "That the Report of the Standing Finance Sub-Committee be adopted"
 - "That the Revised Estimates for 1934-35, as now amended, be approved"
 - "That the Budget for the pay of Government officers for 1935-36 be approved"

Universal Standards for Indian cotton.

"That the Indian Central Cotton Committee confirms the action taken by the Local Sub-Committee in connection with the adoption of Universal Standards for Indian cottons and that the procedure indicated in paragraph 6 of the Secretary's note be approved".

Grant of honorarium for preparation of indices of Minutes of the Committee and its Sub-Committees

"That the Secretary be authorised to grant honoraria to the staff of his office for the preparation of indices of Minutes of meetings of the Indian Central Cotton Committee and its various Sub-Committees up to a maximum of Rs 50 for each year's Minutes"

Proposed introduction of a common unit for the purchase of seed cotton throughout India

"That the Indian Central Cotton Committee desires to express its thanks to the Governments of Bombay, Madras, Punjab, United Provinces and Central Provinces for the steps taken by them to give effect to the Committee's recommendations for the introduction of common units of weight for cotton transactions. The Committee would further urge on the Bombay Government the desirability of standardising also the Bombay candy of 784 lbs as a unit of weight in the Presidency, particularly as this unit is being adopted in practically all the other major cotton growing provinces in India.".

Broadcasting of Commercial News on cotton

"That the Indian Central Cotton Committee requests the Government of India to resume the broadcasting of all commercial news connected with cotton in the mornings particularly through the Bombay Radio Station"

Report of the Agricultural Research Sub-Committee

19 "That the Report of the Agricultural Research Sub-Committee be adopted".



APPENDIX I

Struct 9 - Licensing of Gins and Presses

Secretary's Note.

This subject was last considered by the Committee at its meeting held in August 1933 when the following resolution was passed —

Resorution 1—"That the Indian Central Cotton Committee reasons its resolution of 1924 recommending to the Government of India that the Cotton Ginning and Pressing Factories Act should contain a clause providing for the licensing of gins and presses and that this clause should be made operative in each province by resolution of the Provincial Legislative Councils"

The resolution of 1924 referred to was as follows -

Resolution 2—"That the Central Cotton Committee, after having given full consideration to the proceedings of a meeting of the Cotton Growers, Ginners and Traders with members of the Provincial Cotton Committee held at Lahore on the 19th March 1924 and to the proceedings of the Provincial Cotton Committee held at Simla on 23rd June 1924, is convinced that the licensing of gins and presses will provide the only remedy for mixing in the Punjab, that is likely to have immediate and practical effect

The Committee also wishes to impress upon the Government of India the desirability of putting the Gins and Presses Bill before the Legislature with as little delay as possible."

A copy of the discussion* on the subject at the August 1933 meeting of the Committee is attached

Ir compliance with the resolution passed, the Government of India were addressed in the matter but their final orders are still awaited. In the meanwhile the following further developments have taken —

- (a) A representation (Enclosure 1) was received in March last from about 40 leading cotton merchants and firms in Bombay drawing attention to the malpractice of watering cotton and suggesting the amendment of the Cotton Ginning and Pressing Factories Act for the introduction of a system of hechang
- (b) In March last the Central Provinces Board of Agriculture passed the following resolution
 - "The Board unanimously recommend that in the interests of the cotton-growers of these Provinces all Cotton Ginning and Pressing Factories should be licensed and requests the Central Provinces Government to ask the Government of India to amend the Cotton Ginning and Pressing Pactories Act (No. XII of 1925), with this object in view."

It was stated at the meeting that if the grower of long staple cotton was to reap the full benefit of an enhanced premium, steps should be taken to prevent adulteration of his produce and to check any malpraetice which would tend to bring into discipute the cotton of any tract

(c) The Bombay Millowners' Association in June last and the Bombay Chamber of Commerce in July last addressed the Government of India suggesting the licensing of ginning and pressing factories by an amendment of the Cotton Ginning and Pressing Factories Act, with the object of preventing watering and other malpractices in the cotton trade Copies of their letters to the Government of India are attached (Enclosure II and Enclosure III) These letters and the representation referred to at (a) above were considered by the Local Sub-Committee at its meeting on the 21st July last and it was decided that the Vice-Piesident of the Committee should prepare a resolution in consultation with the Ahmedabad and Bombay Millowners' Associations, the East India Cotton Association, the Indian Merchants' Chamber and the Bombay Chamber of Commerce and place it before the full Committee at its next meeting In accordance with this decision the Vice-President of the Committee met in conference on the 11th August 1934 the President of the East India Cotton Association, the Vice-Presidents of the Indian Merchante Chamber and the Bombay Chamber of Commerce and the Deputy Chairman and Secretary of the Bombay Millowners' Association, and

Enclosure II

Copy of letter dated the 26th June 1934, from the Secretary, Bembay Millouners 1ssociation, Bombay, to the Secretary to the Government of India, Department of I ducation Wealth and I and Samla

Sunject -Presention of water ng and other malpractices in the cotton trade

I am directed to forwind her with for the information of Government copy of a letter addressed to the Association over the signatures of more than 40 principal cotton trading firms in Bombay. The question of preventing such malpractices as watering, mixing, etc. has been before the Committee of this Association and also the Indian Central Cotton Committee on various occasions and it is understood that in accordance with the views expressed by representative trade organisations, the Indian Central Cotton Committee recommended to Government last year that the Cotton Ginning and Pressing Factories Act should contain a clause, providing for the licensing of gais and presses, and that this clause should be made operative in each province by resolution of the Provincial Legislative Council. It would appear that the representations made by the Indian Central Cotton Committee are under Government's consideration, and my Committee, therefore, desire to take advantage of the opportunity to place before Government in some detail their view of the case

- 2 It will be remembered that the MacKenna Cotton Committee (1917-18), in paragraphs 226 and 228 of their Report, recommended inter alia that all giming and pressing factories should be heefised, that such heefises should only be granted on extain conditions, and should be withdrawn for breach of those conditions and on proof of such inalpractices as damping mixing and adulteration. The question was subsequently examined by the Indian Central Cotton Committee, and though they do not appear to have favoured an all India sy tem of heening gins and presses, they seem to have made it quite clear to the Government of India that each Province should be free to introduce heening if they found it necessary and practicable, and that the Indian Cotton Giming and Pressing Bill which was then under preparation should contain a clause to this effect. At a later data (July 1924), the Indian Central Cotton Committee went so far as to state that they were "continued that the licensing of aims and presses full provide the only remedy for mixing in the Punjab."
- In the Gimming and Picssing Factories Bill, which was introduced in the following September Session, a hearing clause was not included, presumably in order not to prejudice the chances of the Bill in the Assembly. The desirability of counteracting the various maloractices which were found to exist by the MacKenna Committee has always been admitted by Government, but what they wanted the House to do when the Bill was introduced was merely to agree in principle that legislation was required to tackle these almses and malpractices, and to enable the trade to protect itself and the cultivator against them, as these malpractices severely injured the reputation of Indian cotton and prevented the Indian cultivator from getting an adequate price for his crop. The Cotton Gimning and Pressing Factories Act has now been in operation for more than 8 years and my Committee have been endeavouring to find out whether the objects which Government had in view when the Bill was introduced have since been realised.
- From representations received from member mills, and the results of the investigations conducted by the Indian Central Cotton Committee on various occasions, it would appear that the existing provisions of the Cotton Ginning and Pressing Factories Act and the Cotton Transport Act have not been adequate to realise fully the objects Government had in view and that the undesirable practices which existed when the MacKenna Committee conducted their investigations obtain even to day. My Committee, therefore, consider that in the interests of all concerned, the provisions of the Act should be reinforced. They have bestowed considerable thought to the problem and are convinced that the Cotton Ginning and Pressing Factories. Act should be amended at the earliest opportunity so as to provide Local Governments with powers to introduce a system of licensing of gins and presses, as, in their opinion, that provides the only effective method of proventing the abuses mentioned in an earlier paragraph of this letter. My Committee are aware of the objections which have been urged against the introduction of a system of licensing, but are convinced that adequate safeguards can be devised to provent innocent parties being unfairly penalised.

Supplementary Note

The following letter has been sent by the Indian Merchants' Chamber, Bombay, to the Government of India on the above subject —

"Copy of letter No 2173, dated the 23rd August 1934, from the Secretary, Indian Merchants' Chamber, Bombay, to the Secretary to the Government of India, Department of Lducation, Health and Lands, Simla

Subject—Re Amendment of the Indian Cotton Ginning and Pressing Factory Act providing for the licensing of Gins and Presses to prevent watering and otler malpractices in the Cotton Trade

The attention of this Chamber has been drawn by the Indian Central Cotton Committee and the Bombay Millowners. Association to complaints regarding malpractices such as witering, etc., said to be resorted to by some cotton gins and presses in various parts of the country, and I am directed to address Government in the matter as under

My Committee recognise that there is a concensus of opinion and pressure from quarters such as the Indian Central Cotton Committee, and the Bombay Millowners' Association in regard to the desirability of amending the Indian Cotton Ginning and Pressing Factory. Act with a view to provide the necessary safeguards against such malpractices. In view of this my Committee would not like to oppose the principle of legislation for the licensing of cotton gins and presses for the purpose. They, however would like to see the detailed scheme regarding such licensing before they can give their final approval to the same. Wy Committee would also like to emphasise the necessity of affording sufficient opportunities to all the interests and commercial bodies for discussing the detailed scheme.

They would urge, therefore, that in no circumstances any legislation on the subject should be passed until the relevant bill was circulated for public opinion and until genuine and bona fide difficulties of owners of gins and presses had been adequately realised and provided for "

APPFNDIX H

Subject 12 —Cultivation of improved varieties of Collon in the Barrage areas of Sind—Note by Chief Agricultural Officer in Sind

Secretary's Note

The Indian Central Cotton Committee at its 28th meeting held on the 30th January 1933 considered a note on certain aspects of the development of cotton cultivation in the Barrage areas of Sind submitted by the Chief Agricultural Officer and referred it to the Special Sub-Committee appointed at the 27th meeting to consider the question of a wider market for Indian cottons. This Special Sub-Committee mot on the 17th and 19th March 1934 and considered the Chief Agricultural Officer's note with special reference to the policy to be adopted in Sind in regard to the kind of cotton that should be encouraged in the Barrage areas, and unanimously passed the following resolution —

"In view of the danger to which cotton glowers in India would be exposed should a further increase take place in the production of short staple desi cotton in Sind, and of the urgency of encouraging the production of long staple cotton in all suitable tracts in India, the Committee is convinced that steps should be taken without delay to establish a compact block of long staple cotton in the Barrage areas of Sind. This culls for co-ordinated effort, including legislation if necessary, intensive seed supply organisation and an improved marketing organisation suitable to local conditions. A special effort should also be made to improve communications and ginning factory facilities in the selected block as quickly as possible. This block should be large enough to produce 300,000 acres of cotton annually when fully developed. The Committee respectfully urges the Government of Bombay to take immediate action to this end before such problems, as mixing, become serious and while conditions are still favourable."

The resolution was submitted to the Government of Bombay for necessary action. The attached letter together with the enclosed printed copy of the Chief Agricultural Officer's note on the resolution now received from the Government of Bombay is for consideration.

The Chief Agricultural Officer in Sind has exhaustively examined in his note the advantages of and the practical difficulties in giving effect to the resolution. They may be briefly stated as follows—

- (a) It is admitted that of all places in India, Sind offers the createst scope for the production of long-staple cotton, the prospective demand for which from home and abroad is encouraging (Paragraph 2)
- (b) As regards the stipulated compact block of 300,000 acres it is pointed out that to have such a compact block of so extensive an area of cotton in Sind the whole of the cotton area in Thar Parkar districtive, the great fed by the Northern and Southern Jamiao, the Mithrao and the Khipro Canal systems of the Eastern Nara Canal System, has to be set aside (Paragraphs 6, 7 and 8) for long-staple cotton cultivation, as the cotton areas in other districts are nother so extensive nor so suitable as the area in this district for the purpose (Paragraphs 4 and 5)
- (c) The reservation of a compact block for long staple cotton means that pres are should be brought upon the present deshi cotton growers of this district to give up deshi (Paragraphs 3, 8 and 9). Thus to compel the growers to grow a particular variety of cotton is a measure which the Committee had not favoured in the Punjab. How then is it good for Sind. (Paragraph 10)? Mr. Jenkins' personal opinion is that it would on the whole be good for Sind. (Paragraph 11)
- (d) From an analysis of the present deshi and American cotton areas in the talukas of Ther Parker district it is concluded that a compact area of 14 lakks acres only, as indicated in the map, could, with advantage to growers, be set aside in this district for long-staple cotton (Paragraph 12)
- (e) As to the legislative measures to be adopted to control cotton cultivation in the compact block, the Cotton Transport Act will not be effective on account of the absence of natural boundaries and lack of regular routes of communication in Sind (Paragraph 13) Besides, Sind conditions are unsuitable for a measure like the Madras Cotton Control Act, except as a last resort (Paragraph 14)
- (f) In any case, the area mentioned in (d) does not require to be placed under legislative control (Paragraph 15) provided certain other conditions are satisfied (Paragraph 16)
- (y) The most important of these conditions requiring immediate attention is the licensing of gins and presses (Paragraph 17). An unobjectionable method of overcoming the opposition of the ginning and pressing industry to licensing is suggested (Paragraph 18).
- (h) Other matters such as (1) the organization of seed supply, (2) the organization of marketing, (3) the improvement of communications and ginning factory facilities etc for cusuring the success of the scheme are also discussed (Paragraphs 19 to 23)
- (1) Paragraph 24 enumerates the actions the Chief Agricultural Officer in Sind would like the Government of Bombay to take on his note

The Government of Bombay now want the Committee's considered opinion on the various points raised in the Chief Agricultural Officer's note, and particularly those mentioned in paragraphs 10 and 18, viz., (1) why it is considered necessary by the Committee to advocate for Sind a measure which the Committee had not considered suitable for the Punjab, and (2) the possibility of reducing the objectionable aspects of licensing of gins and presses by penalising only definitely fraudulent practices such as watering and false-packing and by introducing a system of "marking" or "branding" cotton bales as a guarantee of their purity and quality. The Government of Bombay also want the Committee to take such action as is deemed suitable on the suggestion contained in paragraph 22 of the note regarding the establishment of direct purchasing agencies within the reserved areas

From Subject 16 on the Agenda it will be seen that the Sind Cotton Committee has already expressed itself in favour of the early introduction of licensing legislation, and the expediting of seed-organization work. The Committee also decided to refer the question of abolition of the March closure of canals to the Chief Engineer, and to recommend a slight reduction in the assessment on long staple cotton grown in the reserved area instead of a slight increase in the assessment on short-staple cotton, as proposed by the Chief Agricultural Officer.

Copy of letter No 2160 AJN dated the 1st Lune 1934, from the Acting Under Secretary to the Government of Bombay, Revenue Department, Bombay Castle, to the Secretary, Indian Central Cotton Committee, Bombay

Subtrer -Cotton Sind Barrage areas Cultivation of Improved varieties of - in,

With reference to your letter No. 4235, dated 31st March 1934, I am directed by the Government of Bombry (Transferred Departments) to forward for your information a copy of the note by the Chief Agricultural Officer in Sind on the establishment of a compact block of long staple cotton cultivation in the Barrage areas of Sind. I am to request that the Government of Bombry may be favoured, as soon as possible, with the views of the Indian Central Cotton Committee on the several points raised theroin, and particularly those mentioned in paragraphs 10 and 15 of the note. I am also to bring to the notice of the Committee for such action as they may like to take the suggestion of the Chief Agricultural Officer that the possibility of the establishment of "direct purchasing agencies" within the "reserved areas" may be referred to large consumers for opinion

Note by the Chief Agricultural Officer in Sind on the Resolution passed by the Special Sub-Committee, appointed by the Indian Central Cotton Committee, to consider the question of the possibility of finding under markets for the cotton produced in India, regarding the establishment of a compact block of long staple cotton cultivation in the Barrage areas of Sind

The Resolution of the Special Sub Committee of the Indian Central Cotton Committee runs as under —

"In view of the danger to which cotton glowers in India would be exposed should a further increase take place in the production of short staple desi cotton in Sind, and of the urgency of encouraging the production of long staple cotton in all staple tracts in India, the Committee is convinced that steps should be taken without delay to establish a compact block of long staple cotton in the Barrage areas of Sind. This calls for co-ordinated effort including legislation, if necessary, intensive seed supply organization and an improved marketing organization suitable to local conditions. A special effort should also be made to improve communications and ginning factory facilities in the selected block as quickly as possible. This block should be large enough to produce 300,000 acres of cotton annually when fully developed. The Committee respectfully urges the Government of Bombay to take immediate action to this end before such problems, as mixing, become serious and while conditions are still favourable."

Agreement with objects of the Resolution

I am in entire agreement with the underlying objects of the Resolution passed by the Special Sub Committee which are the organised and controlled development of long staple cotton cultivation in the Barrago areas and the establishment and maintenance of a sound reputation for purity, quality and regularity of the Sind-American cotton crop among consumers both in India and abroad

Factors affecting policy of cotton development in Sind

- 2 For the reasons briefly outlined below, the further policy of cotton development and extension in Sind must be in the direction of increasing the cultivation of long staple (American and Egyptian) varieties of cotton and of the organised marketing of these superior quality types in a pure and unmixed condition
 - (a) The opening of the Lloyd Barrage and Canal Systems has removed the main handicap to the extension of long staple cotton in Sind, viz, the uncertainty of an mundation irrigation supply. The Indian Cotton Committee of 1919 emphasized that there were no prospects of the successful cultivation of long staple cotton in Sind unless the Sukkur Barrage Project was carried out but also stated in its Report that "provided a perennial supply of nater can be assured, we hold the view that there is no other part of India which offers such hopeful prospects of the successful cultivation of long staple cotton" is results of the work of the Agricultural Department in Sind in cotton cultion on Government research stations, fairms and in the districts, co fully the correctness of this opinion.

- (b) The recent boycott of Indian cotton by Japan has forcibly emphasized the unwisdom of any further extension of the cultivation of those staple cottons with a limited and restricted demand. This is most perturbally true in such cotton-growing tracts where medium and long staple cottons—which form the bulk of the demand from Indian and Lanca hire mills—can be successfully grown, under irrigated conditions. Sind chort staple (deshi) cotton has a peculiar and special demand for particular spinning purposes, e.g., however manufacture, and, while admitting that the Japanese boycott bore more heavily on other trade vericus of short staple cotton, e.g. Berars and Central Provinces, than on Sind deshi, I would like to point out that the restricted nature of the demand for this cotton is in itself a weighty reason for limitation of the production of shore staple cotton in Sind. Trade opinion in Karachi has definitely expressed the view that an extension of the Sind short staple (deshi) crop beyond 200,000 bales per annum will most probably result in glutting the limited market for this type of cotton and in a consequent reduction in the price to the grower.
- (c) The marked additional interest which is being shown in Sind-American (and Egyptian) cottons by spinners in Bombiy, Ahmedabid and other mill entresindicates clearly that these classes of cotton fill their requirements satisfactorily and could replace the bull of the cottons now being imported into India from America, South Africa and Lypt for naxtures for spinning finer counts. Recent trade visitors to Sind from Lanceshire have also expressed the opinion that there would be a sure and steedy demand for such cottons from Lancashire spinners, if a regular and unmixed supply is available. An extended demand for Sind long staple cotton is therefore assured and, in view of the increasing tendency of Indian mills to "go finer" and the declared policy of Indiashire to use more Irdian cotton, may be regarded as permanent.

Difficulty of finding large compact "blocks" in Berrage areas

3 Turning now to the Resolution of the Special Sub Committee, I would like to comment firstly on the implications of the term "a compact block of long stiple cotton large enough to produce 300,000 acre of cotton annually". To begin with, it seems necessary to remove a insapprehension, which appears to be widely held that the opening of the Lloy d Burrage and Canal Systems has brought large compact tracts of hitherto uncultivated Government waste land under irrigation, which tracts can be sold or leased out in large blocks to cotton grower on such conditions as Government may think fit to lay down regarding the variety of cotton to be grown etc. Except possibly in the Right Bank areas, this is not the case. Especially in the main cotton growing tracts, which are confined to the Left Bank, the bulls of the land was in the hands of private owners prior to the opening of the Barrage and "new" lands, i.e. Government waste land, are only to be found in comparation with a mail areas interspersed among the settled holdings of established zamindars. This being the case, it is clear that the establishment of the "block" of long staple cotton cultivation suggested by the Sub-Committee must involve the color of long staple cotton cultivation suggested by the Sub-Committee must involve the color article out by the allocation of large compact areas of "new" land on concessionary terms to a few selected cotton-growers.

Annual acreage of cotton required by the Resolution

4 The Sub-Committee's Resolution calls for the establishment of a large compact "block" of long staple cotton "large enough to produce 300,000 acres of cotton annually" This figure is approximately equal to the total acreage of cotton in Sind before the opening of the Lloyd Barrage and is slightly less than the final forecasted development (in 1951-5) of cotton cultivation on the Eastern Nara Canal Systems i.e., the Northern and Southern Jameso, the Mithrao and the Khipro Canals, or say the whole of the Thar Parkar district. Where is such an area to be found.

Thar Parl ar District on Sountable for early Long Staple Cotton development

5 At this stage, I desire to make it quite clear that, in my opinion, any large and early development of long staple cotton in Sind must be looked for in the Thar Parkar district only. Nanabshah and Hyderabad districts cannot be considered in this connection at present partly on account of the more favourable environmental conditions for staple cotton production in the Than Parkar district i.e., on the Eastern Nara Canal Systems, and partly on account of the higher standard of cotton cultivation in that

tract In support of this contention, I give below figures for cotton cultivation in Sind (both deshi and American) in the past I harif season, i.e., in 1933 —

*Area under cotton

District		Deshi	American
Thar Parkar Nawabshah Hyderabad		142,000 acres 133,000 ,, 59,000 ,,	122,000 acres 5,000 ,, 19,000 ,,
	Total	. 334,000 acres	146,000 acres

Considering that the total area of Sind-American cotton cultivated prior to last year never exceeded 60,000 acres, there would seem to be reasonable grounds for the opinion that the future development of long staple cotton cultivation in Sind must be looked for, primarily, in the Thar Parkar district. It may also be mentioned that the suitability of this district for staple cotton production over Nawabshah or Hyderabad districts has been confirmed by the results of a series of varietal tests of different cottons, conducted throughout Sind on Amindari lands over a number of years by the Agricultural Department

Present cotton area in Thar Parkar District

6. Accordingly, the "block" which the Resolution of the Sub Committee refers to must be looked for in the Thar Parkar district, i.e., on the canals comprising the Eastern Nara System. The total acreage under cotton in this district in the past *Lharif* season was approximately 262,000 acres. The Chief Engineer in Sind's weekly statement of progress of cultivation gives the final cotton acreages (*kharif*, 1933) on the main canal systems concerned as under —

Northern Jamrao Canal Southern Jamrao Canal	}			149,624	acres
Mithrao Canal Khipro Canal		•		70,591 75,341	"
		To	tal	295,556	acres

This is approximately the cotton acreage which the Sub Committee's Resolution considers should be produced annually in the established "block" of long staple cotton, i.e., unless any considerable increase in the cotton acreage of Thar Parkar district is possible, the whole of that district would require to be reserved for long staple cotton cultivation to meet the requirements of the Resolution

Forecast of cotton development in Thar Parkar District.

7 The anticipated development of cotton cultivation in the areas irrigated by the Eastern Nara Canal Systems under the Llovd Barrage Project is as under —

1932-33	•			246,357 (actual).
1941-42				261,200
1951-52		•	••	287,800

It is therefore obvious that the development of cotton cultivation in this tract has considerably exceeded the rate of forecasted development. The total cultivable area on the Eastern Nara Canal Systems is 1,956,700 acres and the irrigation supply in the *l.harf* season is only available for 27 per cent of this area, 10, for 528,300 acres. At a maximum estimate, after allowing for necessary fodder crops, rice cultivation, fallows and uncultivated holdings, not more than two-thirds of this area, 10, 352,200 acres, can possibly be cultivated with cotton which is only about 50,000 acres more than last year's acreage. This shows that the full development of the cotton area in this tract has already been practically reached

Implication of Resolution with regard to area,

8 Accordingly, in order to give effect to the Resolution of the Special Sub Committee so far as the area of the compact "block" to be established under long staple cotton cultivation is concerned, it will be necessary to arrange for the whole of the Thar Parkar district, i.e., the areas irrigated by the Northern and Southern Jamrao, the Mithrao and the Khipro Canal Systems to be set aside and reserved for long staple cotton cultivation only and to prevent "by legislation, if necessary", the cultivation of short staple cotton in this selected area

Agricultural con aderations on the Rub Committee's Resolution.

In the first place, I propose to examine the possibility and possible billy, of carrying out the Resolution of the bub Committee from the appropriate of point of very What this implies in that no cultivator in the related "block" thould be periorted to prove any cotton other than certain scheduled long staple variety or variety, i.e., the cultivation of short staple (deshi) cotton within the "block" must be completely probabled. Would such a restriction result in definite handship to the cotton in within the "block". It is such a limitation of cotton cultivation to long staple a restriction result in definite handship to the cotton are true.

Past proporals for similar action in the Pumpile

10. In the part, annular supportions for the typegation of definite "controlled an "" for the cultivation of long staple (American) cotton in the Punjablass less a placed lesson the Indian Central Cotton Committee with the object of checking or limiting the definity of done to the Punjab American crop by "mixing" with thort etaple de la variebre. In 1928, the Indian Central Cotton Committee decided to hold a Conference between reper sentatives of the Punjab and Sind with the Local Sub Committee to do use the corton policy of the Punjab. The first sentence of the Report of this Conference. In his year adopted unanimously by the full Committees, who as under sentence.

"On account of the peculiarities of the cod and they are rapply, the cotten or any in the Runjah must be allowed to grow different varieties of cotton."

This Report was issued after the Punjah Proximital Cotton Committee 1 of the first as impracticable a proposal, made by a Special Sub-Committee to the least the first as impracticable a proposal, made by a Special Sub-Committee to the least the first manner of Punjah-American cotton, that the Sargodha area in the Punjah Hould be reserved as a protected area for Punjah American (staple) cotton. To me had the real reserved as a protected area for Punjah American (staple) cotton. To me had the real reserved in the Punjah Canal Colonics and, accordingly, if the Indian Central Cotton for relitee rely a to the opinion quoted above, the Revolution of the Special finite ammittee it, in effect, a request to the Government of Bombay to carry out measure exclude the the tracks of the neighbouring province of the Punjah. I have to suggest, the effect, the tracks of should be made to the Committee to restate its position in the countries.

Possibility of reservation of area for Staple Cotton Celebrates at Sail

11. My personal opinion is that the finding of the Conference or noted above with was accopted by the Central Cotton Committee, is not justified and they, is remore where "community" i.e., "one variety" cotton cultivation has here a filled e.g., in the United States of America, conditions of roll and vater supply are noted diverse than in extensive tracts of the Punjah and Sind. The main directly vited Iforesco is that, in certain years, the Punjah American crop and, to a least of the Sind-American crop, is liable to failures, the cause of which has not yet have not read although numerous theories have been advanced. Accordingly, the average cultivate grows both American and deshi as an insurance against such "failure years" on the whole, however, and taking a far-sighted view. I believe that the advantages, e.g., ally in Sind where such "failure years" of the American crop have, so far, been of view infrequent occurrence.

Suitability of part of Thar Parkar District for reservation for Lord Steple Cotton

12 In the Thar Parkar district of Sind, the areas in each talula under (1) Sind American, and (b) Sind deshe in the I harif season, 1933, are given below —

*Are under cotton

Taluka.		American		nn	Desti		
Digri				39,000	acres	1,600 ;	sen 4
Jamesabad				29,500	,,	3,000	
Mirpurkhas				10,100	,,	29,000	• >
Samaro				26,700	**	13,700	
Umarkot				7,000	••	20,200	••
Khipro				8,300	,,	45,000	
Sanghar	• •			200	**	26,400	"
		Total		121,200	acres.	131,800 a	ายหาจ

In Mirpurklias and Samaro talukas, the American cotton area is almost entirely in the southern portions of the talukas—From these figures, it will be seen that the cultivation

of American, 1 e, long staple cotton is already much in excess of the cultivation of short staple (deshi) cotton in Digri and Jamesabad talukas and in portions of Mirpurkhas and Samaro talukas south of the Jodhpur Railway line. This area, involving approximately 125,000 acres of cotton cultivation annually, could, I believe, be entirely restricted to the cultivation of long staple American and Egyptian cottons to the ultimate benefit and profit of the cotton-growers of that tract and without any serious dislocation of normal agricultural practice. A sketch*indicating the area referred to is appended to this note At present and until a higher general standard of cultivation is reached, I do not think that similar action could be taken in any other part of the cotton-growing tracts of Sind—with the possible exception of the new cotton area on the Right Bank—without inflicting undue hardship on the cotton-growers

Legislation to ensure staple cotton cultivation in a selected area

13 Turning to the machinery whereby the cultivation of scheduled varieties of cotton only can be established in a selected area, the Resolution of the Special Sub-Committee suggests that this should be done "by legislation, if necessary". In my opinion, such restrictive legislation should be resorted to after all other methods of achieving the desired object have failed as its enforcement would not only antagonise public opinion but would necessitate additional inspecting staffs, etc., and would open the door to abuses and hardships. The Rappipla State has legislated to prevent the cultivation of any type of cotton other than 1027 A L F within the State boundaries but Indian States have particular advantages in the enforcement of such restrictive legislation. The Cotton Transport Act, which prevents the entry of short stapled cotton into scheduled long stapled areas, is in force in several cotton-growing tracts of India. In Sind, however, the absence of natural boundaries, e.g., rivers round the cotton-growing areas, and the lack of regular routes of communication would make the enforcement of the provisions of a Transport Act both difficult and costly.

The Madras Cotton Control Act, 1932

There remains the Madras Cotton Control Act, 1932, which was obviously in the minds of the Special Sub Committee when framing the Resolution under penalty, the cultivation or the possession of "Pulichai" cotton, an inferior short staple deshi variety, in the Madras Presidency It should be noted that this Act does not prescribe that any variety of cotton should be grown but is framed with the object of stamping out one very inferior variety only. I do not think that a similar. Act could be enforced in a protected area in Sind, especially in regard to such clauses as prohibit the possession of, handling of, or trading in, the short stapled variety If such a reserved area for long staple cotton cultivation is prescribed in the Barrage areas, it will, in my opinion, be impossible, to prohibit entirely the entrance of short staple cotton into such an area for ginning and pressing and, as suggested in paragraph 16 seq below, other methods of reducing the risk of fraudulent mixing in factories will require to be considered A modification of the Madras Act to prevent the cultivation of short staple cotton within the reserved area might be examined in view of the possibility that other non-legislative measures for this purpose may subsequently be found to be ineffective

Will legislation for staple cotton growing be necessary in Sind?

But will legislation to ensure the cultivation of long staple varieties only in the area mentioned in paragraph 12 above be necessary? In that portion of the Thar Parkar district, i.e., south of the Jodhpur Railway line, American cotton already forms the greater bulk of the cotton crop—The cultivation of mixtures of American and deshirections in the fields is practically unknown and, on account of certain agricultural advantages, e.g., suitability for early sowing, shorter period of growth, etc., the cultivation of American staple types is becoming increasingly popular with the growers.

Suggested measures to ensure a "block" of staple cotton cultivation in Sind

- 16 From the agricultural stand-point, I consider that the establishment of a "block" of long staple cotton cultivation in the area of the Thar Parkar district mentioned in paragraph 12 above, could be successfully achieved within a short period of time if action is taken in the directions suggested below
 - (a) The organisation of adequate arrangements for the supply of sowing seed of the desired variety or varieties to the cotton-growers within the "block" at reasonable rates or, to commence with, on credit sales This subject is dealt with more fully in paragraphs 19 and 20 below

- (b) The total abolition of the March eloune of canale by the Jim Atom Dep riment. I attach preximportance to this condition. Irritation water for coaking lands for American cotton rowings must be a all the not later than the 15th March.
- (c) The increase of the rate of a communition ded i (chort topled) cotten groun within the received area. This prope if yill require content that by the Revenue Department but, to my mind, it would be not effective in relating the desired object. It would also be justified as dechy cotton use fly requires more irrigation water than American
- (d) The introduction of control, i.e., licensing of cotton, implies and present factories in Sind. This subject is dealt with more fully in a tarrest 17 and 18 below.

If, in addition, a co-operative growers' organization, on the liner of the American Cotton Growers' Exchange, could be established to organize and encourage the co-operative marketing of "marl" cotton and anction references it dead notified in advance to large buyers. I am convinced that, without any further legislative action, a "blest" of long staple cotton cultivation could be established in Sind which would extend as a large standard of agricultural practice develops in the Province.

Licensing of girs and piter e

17. The past history of the Punjah American cotton crop furth he definite collection that mal practices in ginning and presuing factories mainly mixing of leners pleased that staple varieties, can, within a very short space of time, entirely nullify the education of any organised efforts to extend the cultivation and maintain the registration of a factories of the subject of the licensing of pins and present hardsen discrete in the Indian Central Cotton Committee and many resolutions have been discrete in a discrete in the Indian Central Cotton Committee and many resolutions have been adjusted to body urging the importance of such action in the interests of the cetter cultivation of Indian. But no steps towards licensing have yet been taken in Perticular forms although to adopt the necessary measures to protect their cotton provem from the losses which is the mixing of inferior cotton with the letter types of find American cotter in provement that the mixing of inferior cotton with the letter types of find American cotter in provement and organised attempt to extend long staple cotton cultivation on a "community," have can have the slighest prospect of permanent advantage to the groves.

*Use of special " riarls" in licered factories

Licensing of gins and presses is opposed by the ginning and process, whereas largely on two grounds, firstly, that "mixing" of different varietic of otten risk to place outside the factories for which the factory owner will be hable to be led to provide and, secondly, because there is a trade demand for "mixed" cotton. To overcome both these objections, I would suggest that all factories, both pine and press, it ould be licensed, that only definitely fraudulent practices, eq, watering and fall equal in a roubt be scheduled as penal offences and that each licen ed pin and prescribed by provided with one or more Government "marks" or "brands" which they will be entitled to reneal or affix to each bale of staple cotton, above a definite standard of parity, which is not from the factory. The fixing of the "mar!" or "brand, will be done on the role responsibility of the press owner or of his chent, the gin owner, and misute of the privilege will be penal under the because regulations. If such retion is taken, I stage t that the "mark" or "brand" denoting purity of Sind American cotton from a heaved factory will soon become well known to the trade and that such 'marked" or "branded" bales will ultimately command a premium in the mirrlet and will build up a sound reputation for the Sind-American crop. These proposals will require detailed examination by all interests concerned, but I am convinced that the only way to check "mixing" in gins and presses is to take such steps to make the sale of "pure" cotton more profitable than it is at present. The cotton growers also will soon reduce the advantage of their cotton, being marketed as "marked" or "brinded" lales and encouragement and stimulus will be given to (a) the cultivation of pure long staple cotton and (b) the sale of lint in place of kapas sales, both of which developments are definitely in the interests of the Sind cotton cultivator. All bales from the "re-cried area" for long staple cotton in Sind will naturally bear the "mark" or "brand" mentioned above and, in addition, should be stamped with the letters "R \ " to denote that the cotton was grown in the Sind "long staple reservation"

^{*}Suggested by Mr. R. Fleming, Representative of Lancashire Indian Cotton Enquiry Committee.

Seed supply organization

19. The Special Sub Committee's Resolution contains a reference to "intensive seed supply organization" in connection with the establishment of a block of long staple cotton in the Barrage areas of Sind—I agree entirely that such an organization is essential and that the success of the scheme will largely depend upon its efficient working. In this connection, the Agricultural Department in Sind's seed multiplication scheme for improved cotton varieties which is now in its third year—contemplates the provision of seed of improved staple cotton varieties for a total acreage of 150,000 acres in the fifth year—I would be prepared to arrange to concentrate the entire distribution of this seed in the "reserved area". The bulk of this seed will have to be given out to the cultivators on "credit sale" or paid for by "taccavi" advances which should be liberally given for this purpose in the long staple "block".

Other methods of improving seed supply

by the Agricultural Department of seed-growers and ginneries who are prepared to issue on sale "certified" pure seed of the scheduled long staple varieties to cotton-growers within the "reserved area". The establishment of "co operative seed societies" which is at present receiving the attention of the Sind Central Co-operative Bank, the Bombay Central Co-operative Institute, Sind Branch, and the Co-operative Department in Sind should be encouraged and accelerated, especially in the areas selected for the "community" cotton growing of staple varieties. The re establishment and re opening of the existing Government ginning factory at Mirpurkhas, as proposed in the scheme for the development of agricultural engineering in Sind, submitted to Government under my office letter No. 164 of 1933, dated 26th July 1933, would facilitate and intensify the efforts of the Department in providing good seed of improved cotton varieties to growers in the "reserved" area. I would also urgo the necessity for the early appointment of a qualified and experienced Agricultural Engineer, as proposed in the same scheme, as the advice and assistance of such an officer in connection with the control and supervision of ginneries, distribution and storage of sowing seed, etc., would be invaluable in connection with the "reserved" area scheme. The cultivation of long staple cotton varieties, other than those prescribed by schedule for cultivation in the "reserved" area scheme The cultivation in the "reserved" area schould only be permissible on certificate issued by the Agricultural Department in Sind. This will prevent the introduction of other long staple varieties from different provinces and will assist in maintaining the regularity and evenness of the crop in the "reserved" area which factors are of considerable importance and value to consumers

Importance of organised marketing

21 When such schemes for the "community" growing of one or more improved variety of crop is under consideration, the dogma that "the cultivator must be allowed to grow what pays him best" is certain to be advanced. I firmly believe—and obviously the Special Sub Committee of the Central Cotton Committee believe—that, under organised production and organised marketing the cultivation of long staple cotton in the Barrage areas of Sind must ultimately give the best returns to the cotton-grower importance of organised marketing cannot be over emphasized as, under existing conditions in the Barrage areas, where the majority of cultivators are obliged, by force of circumstance, to sell their crops in the form of lapas to the ginner or his district agent, the cultivation of staple cotton has little, if any, advantage over the cultivation of deshi The premium offered to the grower of staple cotton for his produce under such a system of sale bears a quite inadequate relation to the intrinsic value of the staple cotton over the short staple varieties when translated into lint prices In the Barrage areas, under existing conditions of zamindari cultivation, deshi cotton averages higher yields than the American varieties, and unless the grower of the latter, i e, American types, can obtain a reasonable premium for quality, it would not only be unreasonable but unjustifiable to endeavour to compel him to restrict his cultivation to the staple cotton varieties This reasonable premium can only be obtained by improvement and organization of the marketing of staple cotton in Sind

Means of improvement of cotton marketing

In 1927-28, an investigation into the marketing and finance of cultivators' cotton in Sind was carried out under the auspices of the Indian Central Cotton Committee which revealed the fact that practically all the Sind cotton crop was sold in the villages to agents of neighbouring ginneries. The Central Cotton Committee urged that Co-operative Sale Societies should be formed to provide the growers with a better outlet for their produce. I consider that such a step is essential in conjunction with the establishment

of a "reserved area" for staple cotton cultivation. The increase of ginning facilities, which is rapidly taking place in the Barrage areas, will tend to increased competition and earlier disposal of the crop. Further improvement in marketing will result from (a) the introduction of sales of "mark" or "brand" bales (reference paragraph 18 above), (b) the establishment of auction sales of cotton produced in the "reserved" area, and (c) the extension of a system of lint sales among the growers. These matters have already been dealt with briefly in this note. I have only to suggest further that the large potential consumers of Sind-American cotton would benefit—and would assist in accelerating the increase of pure staple cotton cultivation in the Barrage areas—by the establishment of a direct purchasing agency in the "reserved" area and the association of such an agency with co-operative organizations of growers, e.g., cotton sale societies, and with selected ginning factories

Communications and ginning factory facilities.

23. Finally, the Resolution of the Special Sub-Committee contains a reference to improvement of communications and ginning factory facilities in the "reserved" area. The first of these problems is already receiving the attention of Government and I have only to suggest that, when a scheme for road development has been drawn up and finances for such work provided, the "reserved" area of Thar Parkar district south of the Jodhpur Railway line should receive priority in such improvement of communications as may be undertaken. With regard to ginning factory facilities, the bulk of new factory construction within the past two years has taken place within the boundaries of the "reserved" area and I do not consider that any special action is needed to stimulate further development in this direction at present. On the other hand, it is essential that the future construction of factories in this area should be carefully regulated to correspond with actual requirements otherwise a situation may arise which will be detrimental to the best interests of the growers

Suggested action to be taken

- 24 In conclusion, I beg to suggest that the undernoted action might be taken, if approved, on the Resolution of the Special Sub Committee
 - (a) A copy of this note—or an abstract of the main points dealt with therein—may be referred to the Special Sub-Committee for consideration and opinion. I have recently been appointed a member of this Sub-Committee and would attend to explain or amplify any of the points under consideration. The Special Sub-Committee should be asked to advise in more detail on the methods they have to suggest for giving effect to the terms of their Resolution.
 - (b) The Resolution (and, if considered necessary) a copy of this note should be referred to the Sind Cotton Committee for opinion. The next meeting of this Committee will take place in June 1934
 - (c) A copy of this note may be sent to the Collector of Thar Parkar district and to the Chief Engineer in Sind for opinion
 - (d) A reference should be made to the Indian Central Cotton Committee on the point raised in paragraph 10 of this note
 - (c) The Remembrancer for Legal Affairs may be consulted with reference to the possibility of the application of a modified form of the Madras Cotton Control Act (1932) to prohibit the cultivation of deshi cotton in the "reserved" area and to the introduction of legislation for the licensing of gins and presses in Sind [reference paragraphs 14 and 17—18]
 - (f) The Chief Engineer in Sind may be asked to reconsider the possibility of the abolition of the March closure of the irrigation canals or its modification so as to ensure a supply of irrigation water to the "reserved area" from the 15th March onwards [reference paragraph 16 (b)]
 - (g) The Revenue Department—and possibly the Finance Department—will have to be consulted with regard to the proposal for the enhancement of the assessment of desht. i.e., short staple cotton cultivation in the "reserved area" [reference paragraph 16 (c)]
 - (h) A note on the "Licensing of gins and presses" is attached This matter must receive early attention [reference paragraph 17]
 - (t) The proposals for the use of Government "marks" or "brands" on bales of pure staple cotton in licensed factories may be referred to the Indian Central Cotton Committee and to cotton trade organizations for opinion [reference paragraph 18].

- (1) The Registrar, Co-operative Societies, should be asked to advise on the establishment of co-operative organizations for seed supply and for cotton sale within the proposed "reserved area" [reference paragraphs 20 and 22]
- (1) The proposals contained in the scheme for the development of agricultural engineering in Sind relating to the appointment of an Agricultural Engineer in Sind and the re opening of the Government Ginnery at Mirpurkhas require early action [reference paragraph 20]
- (1) The possibility of the introduction of auction sales of cotton in the "reserved area" requires detailed examination. The Directors of Agriculture, Bombay and Punjab, may be referred to for advice in this connection based upon similar organization in these Provinces in the past [reference paragraph 22]
- (m) The possibility of the establishment of "direct purchasing agencies" within the "reserved area" may be referred to large consumers, eg, the Bombay Mill owners Association for opinion
- (n) The question of the improvement of communications in the "reserved area" should be examined as soon as the Report of the Government of India's Road Engineer (Mr. Stubbs) on road development in Sind is received.

Karachi, 17th April 1934.

(Signed) W. J JENKINS, Chief Agricultural Officer in Sind

Note on proposals for Licensing of Cotton Ginning and Pressing Factories

- 1. The Indian Cotton Committee of 1917–18, appointed to investigate the possibilities of extending the growth of long-stapled cotton in India, recommended (reference Chapter XVI "Commercial" of its Report)—
 - (a) that all ginning and pressing factories should be licensed, a preliminary to the issue of licenses being the assignment to all factories of distinctive numbers and marks which would enable the cotton dealt within them to be traced,
 - (b) licenses should only be granted on certain conditions and should be withdrawn for breach of those conditions and on proof of such malpractices as damping, mixing and adulteration,
 - (c) all ginning and pressing factories should be brought under the operation of the Factory Act and required to take out licenses, irrespective of the number of hands employed,
 - (d) licenses should be withdrawn by the Local Government on the recommendation of the Central Committee (i.e., the Indian Central Cotton Committee) after the procedure laid down (reference paragraph 229 of Report of Indian Cotton Committee, 1919) has been followed,
 - (e) suitable penalties should be imposed in the case of factories working without taking out a license or after a license has been withdrawn "
- 2. The conditions proposed by the Indian Cotton Committee for licensing of gins and presses, as stated in paragraph 225 of the Report of that Committee, were examined at the First Meeting of the Indian Central Cotton Committee (July 1921) The general opinion of the meeting was decidedly favourable to heensing proposals. The Central Cotton Committee made certain recommendations thereon and considered that an all-India Act should be passed by the Central Legislature empowering Local Governments to frame rules with a view to giving effect to all or any of these recommendations. It was agreed that the principal Act should enforce the marking of bales and the maintenance of proper press records and the furnishing of statistical returns
- 3. The recommendations of the Central Cotton Committee were circulated to Local Governments for opinion and the replies received, together with a draft Bill for the regulation of gins and presses, were considered at the Sixth Meeting of the Indian Central Cotton Committee (September 1923) on a report from the Local Sub-Committee of that body—The Local Sub-Committee recommended that the licensing of gins and presses should be dealt with by including in the Bill an enabling clause only to be brought into effect with the approval of the Provincial Legislative Council—Thus no province need bring the system of licensing into force unless it was required and no province could bring it into force without the approval of its own Legislative Council. The Central Cotton Committee approved the recommendations of the Local Sub-Committee for the inclusion of such an enabling clause in an All-India Act and resolved that the Government of India

should be asked to undertake legislation at an early date on the lines of the draft Bill submitted by the Committee for the regulation of gins and pressed and for the compulsory marking of bales, maintenance of records of ownership and periodical statistical returns

- 4 At the Seventh Meeting of the Central Cotton Committee (January 1924), certain criticisms of the Government of India on the enabling clause for licensing included in the draft bill were considered. These criticisms referred mainly to the definition of specific offences for which licenses might be suspended and to the nature and enforcement of the penalties in connection with suspension. These criticisms had been examined by the Local Sub Committee of the Central Cotton Committee who recommended that the offences for which licenses may be suspended should be as follows—
 - (1) The mixing of two or more separate descriptions of cotton, the mixing of which has been prohibited by notification under clause 8 of the draft bill.
 - (2) Fraudulent packing (as defined by the East India Cotton Association).
 - (3) Damping cotton by means of water deliberately applied for that purpose prior to pressing when such damping has been conclusively proved.

The Sub-Committee, in its report, also dealt with judicial procedure in the matter of suspension of licenses, penalties, etc., and pointed out that licensing of gins and presses in the Sudan was already in force on a much more drastic scale than was proposed in the draft bill.

The modifications suggested by the Government of India were accepted as the Local Sub Committee felt "that it was of the utmost importance that the enabling clause should not be omitted and were agreed that it was better to modify it now than to risk it being omitted by Government" (Mr. V. A. Grantham, M.L.C., Vice-President, Indian Central Cotton Committee)

- 5 Discussions took place between members of the Central Cotton Committee and representatives from the Punjab at Lahore (March 1924) and Simla (June 1924) at which the proposals for licensing of gins and presses—which had aroused considerable opposition in the Punjab—were discussed. A report of these discussions was submitted to the Central Cotton Committee in July 1924, when the undernoted Resolutions were passed, only three members dissenting—
 - "That the Central Cotton Committee, after having given full consideration to the proceedings of a meeting of cotton-growers, ginners and traders with members of the Provincial Cotton Committee (Punjab) held at Lahore on the 19th March 1924, and to the proceedings of the Provincial Cotton Committee (Punjab) held at Simla on the 23rd June 1924, is convinced that the licensing of gins and presses will provide the only remedy for mixing in the Punjab, that is likely to have immediate and practical effect. The Committee also wishes to impress upon the Government of India the desirability of putting the Gins and Presses Bill before the Legislature with as little delay as possible."
- 6 At the Ninth Meeting of the Central Cotton Committee the Vice-President (Mr V A. Grantham) reported that the Cotton Ginning and Pressing Factories Bill had been introduced at the September Session of the Legislative Assembly and circulated for opinion. The Bill was identical with the draft finally submitted by the Central Cotton Committee except that the important enabling clause (permitting Local Governments to introduce a system of actual licensing) had been omitted. It had been felt that the inclusion of this clause would prejudice the chances of the whole Bill being accepted and that the question of licensing could be taken up later if it was still found necessary.
- 7 The Cotton Ginning and Pressing Factories Act (1925) was passed by the Legislative Assembly in March 1925, and, at the request of the Government of India, the Local Sub-Committee of the Indian Central Cotton Committee submitted a draft of the rules under the Act for consideration These draft rules were considered by the Central Cotton Committee in July 1925, and a Cotton Ginning and Pressing Factories Sub-Committee was appointed for the purpose of dealing with matters, references, etc., arising from the application of the Act
- 8 The Central Cotton Committee discussed the question of malpractices in cotton presses, i.e., watering and mixing in July 1927, when the undernoted Resolutions were passed
 - "That in view of the continuance of malpractices in cotton ginning and pressing factories, the question of introducing the actual licensing of such factories should now be re-examined"

"That the Cotton Ginning and Pressing Factories Sub-Committee be requested to report to the next meeting of the Central Cotton Committee—

- (a) in what areas malpractices are so provalent as to make necessary the licensing of cotton ginning and pressing factories,
- (b) for what offences because should be suspended or revoked, (c) how such offences are to be defined and proved, and
- (d) what machinery should be set up for controlling licenses and for dealing with offences"
- 9 In December 1927, a report from the Cotton Ginning and Pressing Factories Sub Committee was considered. The Sub Committee considered that it was necessary that efforts should be made to check malpractices in cotton ginning and pressing factories by firmer action by recognised cotton trade associations in the direction of penalising mixed, watered or coedy cotton before consideration of licensing legislation. The Central Cotton Committee accepted this view and passed a Resolution which stated. "If on further investigation, it is found that adequate action by organised cotton trade associations is not feasible at the present juncture, the Committee consider that further legislative measures will be necessary." At the same meeting, the Central Cotton Committee were informed by the representatives of Hyderabad and Indore States that the Governments of these States had passed rules under the State Cotton Ginning and Pressing leactories Act, penalising by closure of the factory concerned or by fine, the mixing or adulteration of cotton in factories within the State's jurisdiction. All ginning and pressing factories in these two States are required by law to take out a license.
- 10 In December 1930, the Chief Agricultural Officer in Sind placed a note on some of the more important and imminent problems connected with the future development of cotton cultivation in Sind under the Lloyd Barrage before the Indian Central Cotton Committee Section C of this note dealt with "the problem of the ginning and pressing factories" and included the paragraphs given below —

"With the establishment of perennial irrigation in Sind which will shortly become an accomplished fact—few will dispute the opinion of the Indian Cotton Committee of 1919, that there is no other part of India which offers such hopeful prospects of the successful cultivation of long staple cotton. This subject has already been dealt with in part under the sections of this note dealing with the problem of the variety and the problem of the area. The future welfare of the cotton-growers of Sind will largely depend upon the production of such a type of cotton and upon its reputation for purity and cleanliness being established and maintained in the cotton markets of India and of the world

As one very important condition towards achieving this end, I consider that the introduction of a system of licensing of ginning and pressing factories in Sind is absolutely essential

This Committee is fully aware of all the arguments, both for and against such a system and the practical difficulties which have arisen in the past in this connection. In sind in the future as in the Punjab at present, the cultivation of long and short at ipled varieties of cotton must be carried on simultaneously. How far the segregation of these two types can be carried out by areas is discussed in another part of this note. This Committee has, nevertheless, expressed its considered opinion on several occasions that the only real remedy for mixing and other malpractices is the introduction of a system of licensing gins and presses. In my opinion, the opportunity for introducing such a system in Sind will never be more favourable than at present and, if the lessons of the Punjab are to be profited from, I consider that this question in its relation to Sind and the future cotton crop of the Barrage area should receive immediate attention."

- Il The note was considered by the Agricultural Research Sub-Committee who stated in its report "The Sub-Committee desires to emphasize that the licensing of gins and presses in Sing is essential to the proper development of cotton growing in that Province, and hopes that a strong recommendation to this effect will be made by the Central Cotton Committee to the proper authorities" The report was adopted by the full Committee
- 12 At the twenty-seventh Meeting of the Indian Central Cotton Committee (August 1933), a full discussion took place on the licensing of gins and presses. The question had been referred to different trade organizations for opinion and the replies received are very briefly summarized below
 - (a) East India Collon Association, Ltd., Bombay—Considers time inopportune for fresh legislation towards licensing, in view of impending constitutional changes

- (b) Millouners' According, Bombay, -Consmitted that Beening Is, lettion in necessary to chief malpractices.
- (c) Indian Merchants' Chamber, Bombay -Con idea: time inopporture for licensing legislation
- (d) Karachi Chamber of Commerce, Karachi -- In not exerc to been a g of pier and pre-e3 but degree report by Committee of all interests model 1 on probiningly stop
- (c) Ahmedabad, Millowners' Aerocution, Ahmedabad In favour of leading towards licensing to cheel inalpractices, e.g., mixing of different interest
- (f) Tuticorin Chamber of Commerce, Tuticorin In In our of Ic it strong to archive ingree of preventing to the frontier in the fields.
- (9) Upper India Chamber of Commerce, Caw pore—In the our of legistical towards because of give and presses
- (h) Bombay Chamber of Commerce, Bombay Cronely in farour of heree of legislation
- (i) Karachi Indian Merchants' As organion, Karachi -- Coron of proceed to licensing legitlation

and presses at the Central Cotton Committee meeting that the introduction of hearing legislation was generally supported by the representative of the cotton for the millowners and the Agricultural Department, and opposed 1, the cotton for main ground that all mixing did not take place in the factors and that the grace regression would be penalised for malprictices over high the, had no central. The for native finally passed the undernoted Recolution —

"That the Indian Central Cotton Committee resofteness to be above, and the Cotton Committee resofteness to be above, and the Cotton Gunning and Pressing Lactors. Act should contain a clause provides for the beauty of gins and presses and that this clause should be made open time on each provides by Resolution of the Provincial Levillative Council."

14 In Sind, the regulation of gins and preserving the Entry expensive for the area at the Second Meeting of the Sind Cotton Committee (Innurs 1933) when a Si Committee was appointed to consider the question and report at the rest meeting. The Report of the Sub-Committee, which was adopted by the full Committee inchered a recommendation that the Cotton Ginning and Pressing I whom Artificial Is at rested in order to give enabling powers to Local Governments to introduce legislation real licensing of gins and presses in the future, should such action be found advisable in the interests of the cotton growers.

APPENDIX III.

Subject 14-Half-yearly Report of the Publicity and Propagate Officer.

If the demands on the services of the Publicity and Propaganda Department is any criterion of the growing usefulness and appreciation of its activities, then it may be claimed without any appearance of exaggeration that the Department has progressed a long way towards the realisation of the hopes entertained at the time the Department was inaugurated. Requests for assistance from the Provincial Departments of Agriculture for the purposes of furthering schemes of propaganda, and requests from scientific, trade, agricultural and other associations as well as individuals interested in the production, marketing and manufacture of cotton, for informational matter for calightenment on findings of scientific interest as well as practical importance, indicated the greater use made of this section of the Committee s activities

Turning to press propaganda in the country, there was not one first class daily newspaper in India which did not contain a record of or reference to the work of the Committee as broadcast by the Publicity Department. The number of applications received for the Press Communiques as a result of the intense interest evinced in the various lines of research in this basic industry proved sometimes to be a source of embarrassment to the Department.

Notable Events—The most notable instances of propaganda campaigns in the realm of "field propaganda", besides a large variety of Publicity and Propaganda work carried out in other directions during the half year under report, are propaganda for (a) the

extension of improved cottons in the Barrage areas in Sind, especially in the Right Bank Areas where cotton cultivation had never been attempted before, (b) demonstration of the superiority of Jayawant cotton over local Kumpta and the extension of the same in Dharwar and adjoining districts of the Bombay Presidency, and (c) propaganda for the furtherence of the "clean-up" campaign launched by the Bombay Department of Agriculture, in a selected area of 180 square miles in Gujerat immediately after the harvest for the removal of all cotton stalks and stubbles and for the eradication of alternative host plants so as to convince the cotton cultivators that a substantial yield in Lapas could result by starving the Spotted Boll-worm which does considerable damage to the crop

Making a mention of the assistance given by the Publicity Officer to the Department of Agriculture, Bombay, the Deputy Director of Agriculture, Surat, wrote in paragraph 8 of his letter No C 14/2801, dated the 28th May 1931, to the Secretary, Indian Central Cotton Committee, as follows—

"The Publicity Officer after seeing the work in full swing in May 1933 brought out very good leaflets and handbills which were of great help for the propaganda work. Besides a number of articles in the daily papers published by the Publicity Officer created wide interest in the subject of Cotton Boll-worm Control Scheme"

These campaigns would have been difficult to attempt but for the free and cheerful co-operation of the Director of Agriculture, Bombay Presidency, and the Chief Agricultural Officer in Sind who had always been found ready and willing to help. That the plans of propaganda and the positive success resulting therefrom met with enthusiastic approbation at the hands of the heads of Agricultural Departments in the Provinces, is a matter to be remembered with much gratification. The work is gradually kindling enthusiasm and manifesting its importance in the respective spheres which bear so close a relation to the well being of the cotton cultivator, the industry and the trade

Through its Informational Service the Publicity Department communicated to cotton growers and the general public the practical results of scientific investigations of problems both of all India and local interest. The many sided research activities of the Committee include a study of cotton problems in Provinces and Indian States,—botanical for securing improved strains of cotton by selection and hybridization, physiological for investigation of crop growth, entomological for study of life-history of certain cotton pests and measures to combat them, and mycological for finding out ways to avoid loss due to wilt and root rot

This work is continuous. The knowledge gained influences the grower and the trade. It emphasises old truths as well as now, so that farm practice may be brought as closely as possible into harmony with scientific research. During the half year under report informational publicity gave special attention to the broadcasting of the Committee's work in Madras. It aided in calling the attention of the authorities and the Government to the enormous loss resulting to the cotton crop from the cotton stem-weivil

The exact extent of the evil wrought by the pest the Agricultural Department has not yet calculated, but on a rough estimate it has been found that 20 per cent of the plants die as a result of its attack. This may conceivably be an under-estimate as it is remembered that the incidence of the disease is as great as 80 per cent in the case of cotton in irrigated tract and 60 per cent in the case of rainfed varieties

Guided by information furnished through the publishing of results from the Madras Herbaceum Scheme and the Fodder Cholam Scheme, farmers were reported to be planning important crop readjustment, reducing their acreage of some varieties and increasing the acreage of others. By combining technique with economic information in the manner indicated by the Publicity Department, increased profits are bound to be the outcome.

Foreign Propaganda

The half year now ending has been remarkable for propaganda in Great Britain and other European countries as well as eastern countries like Japan in keeping them well informed with important improvements effected in the quality of Indian cotton and thus making Indian cottons more acceptable than is the case at present. Unquestionably, a few specific examples that have come to our notice bear testimony to the eagerness with which important illustrated journals such as the "Cotton Trade Journal", United States of America, the "Empire Cotton Growing Review", London, "The Textile Recorder", Manchester, "The Textile Weekly", Manchester, "The Textile Manufacturer", Manchester, have written leaderettes based on the material furnished by the Publicity Department of the Committee

In this discuminating I nov ledge regardine. Indican cotton to the mande fessible of the county the columns of fereign paper and journals, the Publicit. Department has the continuous dependent on the columns of fereign paper and other important publications were rent, among other or, an after a four Paper of Associations, both local and foreign to that their constituence is in his decision of more of the Indian crossible. Among important organisation is high received the publicity material, may be mentioned the Lancolnia Indian Cetter Cornection Nanchester International Pederation of Master Cotton Spiniers, and Mande time a Viscociations, Single terr, Line Cotton Spinier, and Deubler and Mande time, I the Cheshire, Oldham Mater Cotton Spinier. Accounting Outlook Erich Association of Managers of Textile Worle, Bolton United Textile Factors Werleys Association Japan Cotton Trading Company, Bonday Golha Is to that her is 11d, Bombay, Sri Krishna Mills, Lid, Nyvore Toyo Menlay Karibay, 12d, 18 and 19 and 1

Propaganda to promote cotton cultiration on In the Light Land Areas

Propaganda for the extension of improved cotten, on the right hill in a Circular Indus under perennial irrelation as used by the Head Burra of Circles among growers on an extensive scale.

A finely printed, colour illustrated pamples with excell at ret up in district printerproved type of Punjab-American (41-15) being non-contable for the state of Z. W. N. (improved De h.), (b) seed rate and irrigation and (c) time rad in the defension propagation for the occasion and 1,500 copies were distributed in the Sindanes.

The Publicity Officer took the opportunity of his crist to Sind to corry on gregor of among the growers on the spot and thus to further the program of the con-

The Publicity Officer is well satisfied that he person lead to be expedded in this work which indeed connot be carried on vectors by tale over the tender maintained with local conditions.

The visit was supplemented by Press Propaganda and an alle to detect to in the "Sind Observer" and mone of the vernacular local daily to interest the polar mention cultivation and its development in Sind, and to to enter a favourable course for the activates of those who are charged with the order the report. The explaint received generous support from the Press throughout the Province and any treed course columns the newspapers gave prominence to the Committee' preparatory of the indicated a sympathetic understanding of the work of the Committee in Sind and it ultimate objective.

A popular illustrated leaflet on the "Improvement of cofton in Sind" with a cell, the Publicity Department, describing the vork of improvement on cocton a Salarit and the extension of improved seed with financial assistance from the Indian Central Central Committee. It deals with the improved strains evolved from the four main control cotton, viz., Punjab Americans, imported Americans, Sind Defluced improved 1 Applied. The improved strains evolved on account of better yield, higher ginning proceeds a superior quality by botanical selection and stabilization are the theoseously. So Island 2-4 Boss III-16 and 27 W.N. A considerable in inher of copies of this people is were distributed widely among cotton associations trade organisations and discrete agricultural associations in Sind. Nor was the Publicity Department in minimized of the interests of the foreign cotton growing, trading and manufacturing organishments are selected in Europe, United States of America, China, Japan, East Africa, Italian and Australia.

The campaign received further stimulus by the issuing of an attractively designed poster entitled. It pays to grow cotton in Sind, with a view to bringing appreciably larger areas under cotton on the Indus Right Bank. The poster draws the attention of the cultivators to the fact that while the grower of jowar gets only Rs. 20 per acrd and the grower of rice obtains only Rs. 30 per acre, the grower of coston prespers with Rs. 50 per acre. Although the Publicity and Propaganda. Department's work was limited to the display of these posters on the Right Bank areas of river It due such an insistent demand for this poster has come from all over the country and also from Europe and America that within the limits of the stock available free issue had to be confined only to special cases. Indeed both in design and usefulness this poster has been considered to be so nearly perfect that the force of its appeal cannot but drive its message home to the literate and illiterate, old and young alike

Sir Richard Jackson was much impressed by the poster and expressed a wish that it should be given wide publicity in England and other European countries. Accordingly photographs were taken of this poster and sent to various papers for reproduction along with descriptive notes. The "Textile Recorder", Manchester, the "Textile Weekly",

Manchester, the "Textile Manufacturer", Manchester, the "Textile Industry", Ahmedabad, the "Indian Textile Journal", Bombay, the "Times of India" and the "Bombay Chronicle", Bombay, and the "Hindustan Times", Delhi, enhanced the immense potential value of the poster by giving a prominent place to the poster in their pages with the explanatory notes.

Encouraging cultivation of Jayawant

The Publicity Department has pursued during the half year a similar campaign of popularising Javawant in preference to local Kumpta in Kumpta-Dharwar area and adjoining districts of Bombay Presidency, and the Hyderabad State. A Kanarese poster was specially prepared with the assistance of the Director of Agriculture, Bombay, featuring a Javawant plant and money falling from it into a Dokra—a typical bag used in the locality for gathering cotton. Facts and figures are given showing the advantages of growing Javawent in those areas. Good progress has been made in the display of these posters which have become familiar to cotton cultivators in those areas. A great step forward was taken to display these posters at the Chikodi Agricultural Show, held in March, where literacy being yet in early stage of infancy the posters were of great use to the bulk of growers and were productive of the greatest influence on the progress of Javawant cultivation in the areas demarcated for the purpose. The Director of Agriculture, Bombay Presidency, commended the poster as "a very good one".

Broach Clean-up Campaign.

The clean-up campaign in Broach to convince the grower that a substantial increase in the yield of lapas would result by pulling out all stalks and stubbles by the 15th of May and thus starving the boll worm of its food supply was carried on by the Department during the half year under report. The Publicity Officer continued to devote attention to this positively useful propaganda work of the Committee. The programme included the distribution of illustrated leaflets in Gujerati. "Get more money for your cotton crop by removing roots with a plant puller and thus exterminate the Boll worm." in the Broach district. Reinforced by an illustrated handbill depicting the plant puller at work and showing the advantages of our project by means of illustrations of a protected and unprotected plant the Publicity. Department was able to induce the masses to take advantage of the valuable information contained therein and improve their economic well being.

While dealing with propaganda through the use of posters it is interesting to record that because of their successful display, the demand for the poster entitled "India's Bid for Supremacy in the World's Cotton Markets" having far exceeded the stock available, a third edition was printed in English, Hindi, Gujerati, Marathi, Sindhi, Urdu. Gurmukhi Kanarese and Tamil The printing of a Telugu version for the cotton growing tracts like Cudappah, Kurnool and Bellary of the Madras Presidency is under preparation

Leaflets

In addition to the propaganda activities the Department furthered its educational efforts by continuing to issue printed publications to broadcast findings of great economic importance. The leaflets were —

- (1) "Hyderabad Botanical Scheme" —Printed in Urdu, Kanarese and Marathi at the suggestion of the Agricultural Department, Hyderabad —This leaflet describes the work that is being carried out by the Indian Central Cotton Committee in co operation with the Government of His Evalted Highness the Nizam of Hyderabad with a view to evolving a strain of Gaorani cotton of a higher yield and ginning outturn than the present strain—Copies of this leaflet have been forwarded to the Secretary to the Nizam's Government, the Director of Agriculture, Hyderabad, to the Cotton Research Botanist, Parbhani, and to the vernacular presses likely to publish them.
- (2) "Institute of Plant Industry" —This illustrated leaset printed in Hindi and Marathi deals with the fundamental causes which led to the formation of the Plant Institute in 1924, and the work accomplished to date in the improvement of raw cotton in India. The Empire Cotton Growing Review commenting on the English version published in the form of Press Communiqué observes "One of the important achievements of the Institute of outstanding prominence has been the standardsing of the process known as the Indian Compost Process, for rapidly converting farm waste into a valuable organic compost manure at a small cost" 1,000 copies in each of Hindi and Marathi were printed and the Director of the Institute of Plant Industry was supplied with a sufficient number for free distribution.

- (3) "Ferrin Colling". The Hindle leader decribes the cooperative scheme started in 1930-31 with the object of occurring an adeque to proceed the street over diventoning supplies of pure read. 1,200 copies of this lases been printed and a last a number was forwarded to the Directors of Agriculture, Central Province, for distribution. They were sent to the verne cular process as well.
- (4) Copies of the illustrated leaflet in Gupreti entitled. 'He's ore is explorence collon crop by remaining roots with a play to puller and the existing of the Bolt corp.' were reprinted for distribution in the Provid district. An illustrated I shall illustrating the plant puller at work and a protested and improve ted plays to east o regarded to accompany the leaflet.
- (5) "Summary of Proceedings". A summary of the district of the subjects that came up for consideration at the 25th meeting of the Indian Central Course Committee held in Bombay on the 29th and 30th January 19th a raw in prepared by the Publicity Officer in a less formal manner for the best test version of ell Caumbers of Commerce, Trade Associations, Competative Sociation and other

The demand for publicity literature continues to be leavy.

I slab tore and Slare.

During the period with which the report deals, the Public to Deporter of the existing for its credit in excellent record of displaying entrons and a ringuish there improve Indian cottons. In April 1st, the Department to the process of the Ferdish to desire the Indian Labilition.", Bombay, under the point auspies of the Ferdish to desire the grand the All India Symmer. A postation in complies of the Ferdish to the best war of the Exhibition Committee, Its supplies of Lyra with an equal to external labels which compelled attention, with a view to problem in the of the works. (1) dayawant, (2) today I, (3) Surat 1927 All (3) Wesser, (4) the first problem in the office of the cotton and the end of the first problem in the World's Cotton The level, the problem is the first and "Lincouraging dayawant in preference to be descripted as a cotton and the Exhibition lasted for a forting hand provided an almost the Lopportarity of law is home to enormous number of peoples has a stead it, the precision of the record of the forting the indigenous industry for a first phone to enormous number of peoples has a stead it, the precision of the record of the forting the indigenous industry of the country and in that it is a coordinate of the long tends of other nations for in its decade.

A large number of people chowed pred interest in the I while to of the Irdian Central Cotton Committee, and it is plea and to record it it our enterprises are soled by many enquiries from traders and from the public regarding the solid type of Irdian cotton used in Indian mills and exported to foreign countries in which they were in the stell especially in view of the low prices now obtainable for cotten.

Publicity literature was distributed to interested visitor. Donos in the spinning performances of the various cottons exhibited very fine it has a single from the Technological Laboratory and a statement showing the purpose of alls of each of the cotton samples was distributed freely to crowded and not

The wholehearted color peration of the Indian Central Cotton Committee in the Fyhila tion was acknowledged in a letter from the Secretary of the Exhibition via, where the said "My Committee desire me to express their sincere thruls to the Indian Central Cotton Committee for their coloperation and Lelp in milling the Lahibition a complete success."

"I should like to add an expression of my gratitude for all the relyice and assistance which you afforded me during the Exhibition and for answering question of a technical nature regarding the agricultural improvements effected in Indian cottons is a language understandable by the layman. These and other metters of interest to cotton growers tradesmen and manufacturers which were the subject of your talks were, I am glad to add, greatly appreciated by all sections of people."

"Indere Exhibition"—Another Exhibition in which the Publicity Department participated was the Indere Exhibition held in March under the patronage of the Government of His Highness the Maharaja Holhar of Indere

Publicity material, including posters, pamphlets and leaflets, etc., were freely distributed among cotton cultivators, traders and businessmen

A leaslet describing the work of the Institute of Plant Industry, Indore, on the improvement of cotton was read with special interest

"Agricultural Show at Chilodi"—In the Belgaum District was the third show in which the Publicity Department participated with success. This show was conducted on the 22nd, 23rd and 24th of March by the Belgaum District Agricultural Show Committee, Chikodi. A demonstration on the working of the Seed Multiplication and Distribution Scheme of Jayawant cotton in Athani centre was arranged by the Deputy Director of Agriculture, Dharwar, and the Cotton Superintendent, S. M. C., Dharwar. A special poster designed to assist the Bombay. Department of Agriculture in the extension of "Jayawant" in the Dharwar area in preference to local Kumpta was displayed and proved most useful. A large number of pamphlets leaflets and other publicity literature such as the Committee's brochure and bulletins were supplied to the Doputy Director of Agriculture for free distribution. These enabled emphasis being laid on the improvements effected in cottons grown in that part of the Bombay Presidency.

Enquiries

"As regards your publicity work" observes Sir Richard Jackson, Chairman of the Lancashire Indian Cotton Committee, Manchester, "I think your reports give the public a valuable ide i of the time money and effort devoted to the product, the cultivation and marketing of which we have so much at heart".

A large number of enquiries were received and attended to by this Department of the Committee from this country as well as from abroad. The British Cotton Growing Association Baylidad (Iraq) was calightened on the use of fuzzy cotton seed for feeding cattle and the measure of success achieved in breeding naked-seeded long-stapled Dr Walter Schuck Palestrina, Amsterdam, wrote to us "I have strains in the Punjah read with great interest your article in the "Times Weekly "of to day As you cortainly know. Germany is one of the biggest consumers of cotton and I think there would be certainly a still better market for Indian cotton, if the problems in question would be discussed in the presson As a correspondent of one of the biggest German textile papers "Der Konfektion ir and other leading economic reviews, I shall be very glad to get from you some informative material on Indian cotton, perhaps also photos" All the published information on the subject was accordingly supplied as also some of the leaflets and press communique which were of interest. Enquiries of this kind from distant foreign lands encouring the belief that the widening of informational service has lately attracted growing attention from both the tride and the general public here and abroad. In India there has been an appreciable quickening of interest in the activities of the Committee, as ovidenced by enquirier such as those from H A Barnett & Co, Calcutta (regarding Pink Boll worm Scheme Press Communique, and asking for further information), Jalalpur (plant puller), Trivandrum (general information about the Committee), Tinnevelly (publications), Karachi and Ankleswar (publications and posters), Udipi (enquiry as to where samples of West Indian cottons could be obtained), Ellerman Arracan Rice and Trading Co, Ltd, Calcutta, (details of damage done to cotton plants by Boll worms) Adom (posters and publications), Jodhpur (particulars of Jayawant cotton), and from Pale; (details about the quantity of cotton crop in the various juits of India).

Press Communiques

Communiques on the following subjects by the Department received wide publicity in a large number of newspapers in all parts of India —

- (1) Report of the 28th meeting of the Indian Central Cotton Committee —A short description of the important discussions at the meeting of the Indian Central Cotton Committee on the 29th and 30th January 1934, like the prominent role played by cotton in the relations between India and the United Kingdom in the past, and its prominent place in the future relations of the two nations
- (2) The harmful effects of cholam on succeeding cotton crop—Indicates the results obtained to date by the Madras Fodder Cholam Scheme financed by the Indian Central Cotton Committee—It reviews in brief the effect of stubbles, the experiments made at Coimbatore to find out whether any of the observations of research will hold good under Coimbatore conditions, and percolation experiments
- (3) Cotton Research in the Punjab —This has been issued at the advice of the Director of Agriculture, Punjab, to counteract the wrong impression created regarding the use of fuzzy cotton seed for feeding cattle.

- (4) Review of the Annual Report of the Indian Central Cotton Committee, Bombay, for the year ending 31st August 1933—A summary describing the activities of the Committee, legislation for the better growing and marketing of cotton, compilation of cotton statistics of value to the trade, research directly carried on under its auspices and others promoted by the grant of subsidies to Departments of Agriculture in the Provinces and States, Seed Extension Schemes and the publicity and propaganda to create and stimulate public interest in the growth and fortunes of cotton, the most important money crop in India
- (5) Pempheres and Physiological Scheme —Deals with the entomological and physiological investigations that are being carried out into the methods of fighting out the cotton stem-weevil—an important pest in the Madras Presidency, and at recrtaining the causes for the greater damage by the pest on some cottons than on others
- (6) Madras Herbaceum Scheme —Gives in short the efforts made by the Committee to evolve by breeding methods a suitable strain possessing the yield, ginning and spinning qualities of Karunganni, combined with the colour and root system of Uppam and the results so far obtained
- (7) Madras Fodder Cholam Scheme —A note on the investigation into the harmful effects of fodder cholam when compared with cumbin on the succeeding cotton crop and the method of attack on the problem from the points of soil moisture, soil nitrogen, distribution of cholam and cumbin roots in the soil and the rate of their decomposition and the important findings thereof
- (8) Development of Cambodia cotton in Coimbatore District —Deals with the condition of Cambodia cotton crop in Coimbatore district prior to 1918-19 and the lines of development thereafter.

In addition to the communiques mentioned above, a special series of articles drawing attention to the Technological Laboratory's work at Matunga in the following directions were issued —

(1) High Draft System of Spinning and their importance to Trade (2) Yarn testing and its importance to cotton mills—These two articles deal with the experiments conducted at the Technological Laboratory of the Committee on spinning and yarn-testing, and the importance of the useful findings to trade and cotton mills

Promotion activities with respect to India's cotton production this year and thereafter — Another article also issued deals in the main with the Committee's research and seed extension schemes in progress and the prospective ones

Commercial Survey of Indian Cottons —This article gives a short account of the various improved varieties of Indian cottons grown in the different parts of India Its publication will be of interest to the trade

Tours

During the half year under report, the Publicity Officer visited Coimbatore, Koilpatti and other important centres in the Madras Presidency in connection with the work of the Committee He attended the 5th meeting of the Sind Cotton Committee held on the 14th June at Karachi at which various steps which would help to accelerate the pace of demonstration and propaganda work in the Barrage area were discussed. He later made a tour of the important cotton centres in the Hyderabad district.

These tours were found to be of great value in Leoping the Publicity Officer in intimate personal contact with propaganda problems and enabling him usefully to contribute to the development of cotton in the light of the information collected during the tours

Future Programme

The most notable achievement of the Publicity and Propaganda Department of the Committee during the period under report has been the appreciable quickening of interest in the work of the Indian Central Cotton Committee among cotton growers who put the results of scientific investigations into practice. Excellent material progress has been made on the thice active propaganda projects described in the preceding pages. By far the most important portion of the propaganda scheme is that relating to the improvement of the economic conditions of the grower and his national well-being. The work done has clearly shown that this type of beneficial activity is of such real consequence to the agricultural population in the districts that ready appreciation will be forthcoming from even the illiterate peasantry of the advantages of improvements in cotton.

By widening the field of propaganda, the necessity for which is overwhelming, the Indian Central Cotton Committee can, with certainty, hope to win for Indian cotton a worthy place in the world's markets in the not too distant future and to ensure a lasting basis of prosperity. The usefulness and importance of the activities of the Indian Central Cotton Committee is gauged not merely by the scientific investigations that its staff conducts, but by the confidence it inspires in the public through its Propaganda Department.

Besides other channels of publicity previously followed, the Department will continue its efforts to diffuse useful information on the diversified activities of the Committee connected with cotton in the most general and comprehensive sense. It has in hand the preparation of a revised edition of the pamphlet called the "Indian Central Cotton Committee. Its Objects, Activities and Achievements" in which will be set out vividly and simply the general significance of the Committee's beneficial activities.

Valuable research results obtained at considerable cost cannot be kept under bushel The success achieved by the Surat Entomological Scheme and the results obtained from the Clean-up Campaign against Boll worm in Gujerat are of such vital importance to the well-being of the cultivator and the cotton trade, that the Publicity Department would consider it an imperative necessity to bring out an illustrated pamphlet embodying the findings

The Department proposes also to issue an illustrated pamphlet describing what has been done so far in the Madras Presidency by the Cotton Committee in co-operation with the Department of Agriculture, Madras, in effecting improvements in the quality of extron, combating pests and expression of improved varieties

It would likewise continue to assist the Chief Agricultural Officer in Sind in his endeavour to encourage cultivation of cotton on Indus Right Bank areas, and for that purpose will issue a remacular edition of the propaganda illustrated leaflet, with the reproduction of the Poster "It pays to grow cotton in Sind" on the front page

Press releases and radio broadcast will supplement publicity literature. Newspapers, magazines and periodicals will be carefully nursed, by means of which useful information will reach the people in a suitable form

The Publicity Department may be allowed to convey its thanks to office-bearers and members of the Committee for the encouragement it has received and to express the hope that the Provincial Departments of Agriculture will continue to give their co operation and assistance in the future, as they have done in the past

APPENDIX IV

Subject 19—Schemes of the Committee—Report of the Special Meeting of Agricultural Re earth Sub Committee

A memorandum on the agricultural research schemes prepared by the Secretary at the instance of the Standing Finance Sub Committee was considered by that Sub Committee at its 126th meeting held on the 19th January 1934, and referred to the Indian Central Cotton Committee for further consideration in the light of the expenditure so far incurred on agricultural research, the future commitments of the Committee with regard to current schemes, and the general financial position of the Committee. The Indian Central Cotton Committee, at its 28th meeting held on the 30th January 1934, considered this subject and decided to call for a report on it from the Agricultural Research Sub-Committee and passed the following resolution —

Resolution 20—"That a special meeting of the Agricultural Research Sub-Committee be fixed as early as feasible in April, but not later than May 15th, to consider the papers on Subject 34 of the Agenda of this meeting, and that all members of the Agricultural Research Sub Committee, specially technical members, be asked to submit their memoranda to the Secretary not later than 31st March 1934"

It was also decided that the scope of the enquiry should be extended to seed schemes as well and that the question of maintaining a minimum balance on hand raised by the Vice-President should be considered at the next meeting of the Committee along with the report of the special meeting of the Agricultural Research Sub-Committee

In pursuance of the above resolution, a special meeting of the Agricultural Research Sub Committee was convened on the 29th June 1934, as on account of unavoidable circumstances it could not be held earlier—The Sub Committee met on the 29th and 30th

June 1934, and examined in detailful the relience both agricultural and eved extension, and arrived at the following conclusion, and recommendations.

- (a) It was agreed that the undermentioned schemes had yielded no useful or practical regults of value --
 - (1) Surat Physiological Scheme.
 - (2) Dharwar Plant Breeding worl for the improvement of Epicad Angeron cotton.
 - (3) Central Proximent Mycological & heme
 - (f) Punjah Entomological (Pint Pollworm) is heme,
 - (b) The undermentioned schemes were adjudged a having yielded a ful result -
 - (1) Surat Entomological and Clean up 5 hear
 - (2) Dharwar Wilt Scheme
 - (3) Khandesh Cotton Breeding Schome
 - (4) Central Provinces Botanical Scheme
 - (5) United Provinces Pint Bolly of in Scheme
- (c) It was decided that the following whome, which were proceed, doublite allowed to continue.
 - (1) Madras Herbrecum Scheme
 - (2) Madras Fodder Cholam Scheme
 - (3) United Proxinces Cotton Survey Selenie
 - (4) Punjab Botanieal Scheme
 - (5) Punjab White Ily and Spraying Trials School
 - (6) Punjab Root Rot Scheme.
 - (7) Punjab Physiological and Bloch mical Sheri
 - (8) Punjab Defibrating and D linting Sheme
 - (9) Sind Physiological Scheme
 - (10) Bengal Comilla Scheme
 - (11) Hyderabad Botanical Scheme
 - (12) Hyderabad Cotton Survey Scheme
 - (13) Baroda Root Rot Scheme
 - (14) Burma Cotton Improvement Scheme
 - (15) Bikaner Gang Canal Scheme

In the case of Nos. 1, 2, 3 and 11 it was specifically decided that they right be allowed to continue till the end of their continued period only and that no non-extension should be granted to No. 11 after that

- (d) No decision could be reached on the following telements they were all new schemes and it was too early to pass any judgment on them
 - (1) Jalgaon Cotton Breeding Scheme
 - (2) Broach Cotton Breeding Scheme
 - (3) Bombay Small Leaf Disease Survey Scheme
 - (4) Madras Nadam Cotton Breeding Scheme
- (c) The following special recommendations were made with regard to other schemes -
 - (1) The question of continuance of the Madras Pempheres and Physiological Scheme should be further discussed by the Indian Central Cotton Committee at its next meeting.
 - (2) The Agricultural Research Sub Committee at its next meeting should consider the possibility of co-ordinating the Central Provinces Lintomological Scheme with the Hyderabad Pink and Spotted Bollworm Scheme
 - (3) The question of continuance of the Punjab Spotted Bollworm Scheme might await its first year's report.

- (4) The consideration of the United Provinces Pink Bollworm Extension Scheme should be put off till the scheme was finally adopted by the United Provinces Government
- (f) The following general policy in regard to schemes was also laid down -

A AGRICULTURAL RESEARCH

- (1) Local Departments of Agriculture should, as hitherto, continue to submit research schemes
- (2) A complete and thorough summary of the up to-date work done and the knowledge gained on the problem in question in other parts of the world should accompany each scheme
- (3) A special Sub-Committee of expert members should be appointed to examine every new scheme and find out if, in preparing it, the officer concerned had compiled with item (2) and had taken into account all published work, and consulted competent authorities on the subject
- (4) Hereafter the Committee's money should not be spent where provincial money was available
- (5) All entomological and mycological schemes should be scrutinised more thoroughly and that whenever possible Universities should be invited to take up entomological and mycological problems and small schemes involving fundamental research
- (6) The Agricultural Research Sub-Committee should, after examining the new schemes, frame a wider programme for the whole of the area having the same problem and decide where the main research should be carried out, and where sub stations, if necessary, should be opened

B SEED DISTRIBUTION AND EXTENSION

Though no departure from the accepted policy in regard to seed schemes is necessary, in future all new seed schemes should be subjected to a very thorough and careful scrutiny before they are sanctioned

C PUBLICITY AND PROPAGANDA

Publicity and Propaganda scheme should be made permanent

D INDORE INSTITUTE.

The work done at the Institute of Plant Industry, Indore, during the Directorship of Mr A Howard (now Sir Albert Howard), in furtherance of the object, viz, the improvement of cotton, for which the Institute received its main support from the Committee, has produced no tangible results. As attention was concentrated during this period on propaganda work and compost, instead of research into cotton problems as was originally intended, the money so far spent on the Institute by the Committee is as good as practically wasted. The new programme of work initiated by the new Directorate appears to be promising and worthy of being given a fair trial, provided adequate safeguards can be devised to ensure that approved programmes are actually carried out and not neglected as before. To achieve this end a more effective control by the Committee over the affairs of the Institute, than has hitherto been the case, should be secured. This is possible only if the Committee has an absolute majority on the Board of Governors. A revision of the existing position of the Indian Central Cotton Committee on the Governing Body being therefore necessary, a report from the President in that direction might be awaited

It was also decided that it was necessary to have a Central Research Station for cotton and that for the present it should be the Institute

E GUNERAL

With regard to the complaint of Mr W Roberts that the Hyderabad State had been liberally treated by the Committee in the matter of financing schemes put up by the State, the Sub Committee was unanimous that no departure should be made in its policy of sanctioning schemes submitted by the State on their own merits

Differing from Mr Roberts regarding the alleged mismanagement of cess funds by the Standing Finance Sub-Committee, the Sub-Committee placed on record its deep appreciation of the work done by the Standing Finance Sub Committee.

number of separate spinnings, or counts spun, is also given for each of the nine classifications. Corresponding figures for the same period of last year are given in the table for comparison —

TABLE II

	Samp	njea	læ	ote	Counts							
	1st November 1944 to 41st Max 1934	1st November 1942 to 11st May	1st November 19 to Hst Max 1934	1st November 1932 to Jist Wix 1953	1st November 1933 to 31st May 1931	1st November 19,2 to 31st May 1933						
					1							
Bombay	70	66	70	66	12	201						
Punjab	8	39	8	ρ, [21	117						
United Provinces	G	7	6	7	15	22						
Madras	41	28	41	28	133	85						
Central Provinces	9	r	Į.	5	27	15						
Miscellancous	65	36	68	-0	207	111						
Total	205	181	205	181	621	551						
Standard tests	15	17	30	34	168	188						
Trade tests	£2	25	32	25	88	GG						
Technological tests	s7	46	90	20	249	88						
Grand Total	339	269	357	290	1,126	893						

The Spinning Laboratory, during this seven months' period under notice, has tested nearly 25 per cent more samples and lots than were tested during the corresponding period of last year. This large increase has been possible of attainment largely through the recent introduction of the new Line Roving Frame working in conjunction with No 3 Ring Frame, and comprises for the most part, spinnings of the ginning test samples

Yarn Testing Section — This section has been very fully occupied making the necessary tests on the yarns spun in the Laboratory, and has, during the seven months' period, completed tests on 300 samples which include determination for the count strength and twist of each yarn. The results of some of these tests are included in the Technological Circulars listed at Table on page 79 and others are incorporated in the many spinning test reports noted at Table III, which are issued to the various agricultural officers concerned —

TABLE III

		lst November 1933 to 31st May 1934	lst November 1932 to 31st May 1933
Spinning Test Reports Fibre ,, ,, Yarn ,, ,		59 6 1	50 15 3
Т	otal -	66	68

Table III comprises the number of reports issued during the present period and comparative figures for the same period of last year. Each of the 59 spinning test reports include the results of a combined spinning and fibre test and the six fibre test reports issued detail the results of only the fibre tests.

In addition to the reports issued to the many agricultural officers concerned not a few of the samples listed at Statement A above forms the material for tests of a special nature. These special tests are outlined below in the following four broadly classified groups —

I Agricultural samples-

- (1) Irrigation experiments
- (11) Rotation experiments
- (111) Manurial experiments.
- (iv) Bukalasa cotton tests.
- (v) Standard Indian cottons

II. Fibre tests-

- (1) African cottons
- (21) Dolgras cotton

III. Trade Tests-

- (1) Millowners' and E I C Association samples
- (11) Dry and Damped cotton.
- (121) Deterioration of Broach cotton stored at Bombay
- (iv) Deterioration of stored cotton at Karachi
- (v) Effect of compression in baled cotton.
- (vi) Storage effect on fibre quality
- (vi) Storage effect on Lapas before ginning
- (viii) Deterioration of Broach cotton due to damping
- (ix) Cloth samples.
- (x) Sized yarn samples

IV Technological samples-

- (1) Experiments on the carding engine
- (11) Ginning experiments
- (111) Wax content and feel of cotton

I Agricultural samples

(1) Irrigation experiments —The samples received from Bikauer, Sakrand and Coimbatore for this investigation were tested during the present period. The results are tentatively summarised as follows —

Bilaner —Frequent and heavy irrigation resulted in better yield, higher ginning

percentage and stronger yarns but the differences are not large Salrand—Regular irrigations gave slightly longer fibres, 10 irrigations, as compared with 7, gave less immature fibres, less loss in processing the cotton and stronger yarns

with fewer yarn breakages

Coimbatore—Different spacings and irrigations are considered conjointly
Compared with the dry sample irrigation results in an increased yield of seed cotton,
reduction in number of immature hairs and neppiness of yarns but shows no change
in fibre length or fibre weight

- (11) Rotation experiments —In order to ascertain which rotation gave the best results the Cotton Specialist, Coimbatore, sent six samples for test which had been grown after cumbu, cholam, ragi, groundnut, fallow and green manure respectively. Considering both yield and spinning performance the green manure sample gave the best results with groundnut and fallow following next in order. A similar experiment was made by the Superintendent, Agricultural Research Station, Koilpatti, on five samples of Karungania C7 which were grown after irangu, cumbu, pillipasara, set seed and "shot blade" respectively. Previous tests had indicated that irangu lowered the spinning performance but the present test reveals no significant difference with the exception of the sample after pillipasara, which gave a longer fibre but slightly less even yarn. The other samples show no difference among themselves and all are slightly inferior to the control sample
- (111) Manural experiments—As mentioned in the Director's last progress report, a paper on the effect of manural treatment on Cambodia Co 1 cotton to investigate the type of manure and the amount of dressing to give the best results of yield and spinning performance with Cambodia was completed and read before the Indian Science Congress held in Bombay in January 1934. Another manural test, noted in progress report No 20, has been completed during the present period on Karunganni C7. Two different manures were applied in this case and both gave stronger yarns than the control sample. There was little to choose between the results of the two manured samples and the results of this test confirm those of the previous tests.

- (iv) Bukalasa cottons—Spinning and fibro tests were recently carried out on eight cottons submitted by the Agricultural Officer of the Bukalasa Experimental Stations, Uganda—This is the second year in succession that the Committee have permitted tests to be made on these cottons
- (v) Standard Indian Cottons—The test for maturity of fibres of the Standard cottons is a new feature introduced for the first time this season and is one that is likely to become very popular as undoubtedly the number of mature hairs present in any given sample is an important factor in the strength of the spun yarn. The maturity count will be included in the forthcoming annual bulletin on the Standard cottons. As the two Standard cottons C \9 and Hagari 25 have gone out of cultivation these cottons will be omitted from this season's bulletin. The Hagari 25 has been replaced by Hagari I

II Fibre Tests

- (1) African cottons—Tests for mean fibre length has recently been made at the Laboratory on three African cottons namely. Kampala, Busoga and Jinja—These tests supplement those already carried out during the past three seasons and are intended to assist the Special Appeal Committee of the Last India Cotton Association in fixing a minimum standard of fibre length for these cottons—At their meeting held on the 22nd March 1934 the Special Appeal Committee considered the report of Dr. Ahmad on the fibre length tests already made at the Laboratory on these three African cottons and decided it would be advisable to continue these tests for another season before a minimum standard of mean length could be safely recommended, and with this object in view invited the Bombay Millowners' Association to assist by sending to the Appeal Committee every month three or four samples of these African cottons of fair average quality of the season
- (11) Dolras Cotton Wr M R Dokras, a Pleader residing at Chandur, sent a sample of cotton (recently evolved by him and bearing his own name) to the Laboratory to be tested and its results to be compared with those of the standard Verum cotton. This particular sample of Dokras was found to be about 15 per cent both longer and finer than the standard Verum 262

III. Trade Tests

(1) Trade samples—The East India Cotton Association and the Millowners' Associations of Bombay and Ahmedabad have in accordance with the arrangement made in September 1929 continued to send samples representative of the season's commercial types, and, during the period under review, have sent 20 such samples—These samples have, as usual, been subjected to the spinning test only and the results were incorporated in the respective circulars—A list of these Technological circulars issued during the past seven months is given below—

Cotton	Techno- logical Circular No	Date of issue
Umri Bani Verum 262 (Akola) Khandesh (Bengals) Ujjain Punjab American 289 F Verum 262 (Nagpur) C P No 1 and Berar Khandesh Ujjain (Mandsaur) Moglai Punjab American 4-F Muttia Latur and Nanded Hubli-Kumpta Hubli-Upland	110 111 112 113 114 115 116 117 118 119 120 121 122 123	December 1933 January 1934 Fobruary 1934 """" """" March """" April """ April """

Cotton	Technological Circular No.	Date	of issue
Broach .	124	April	1934
Surat Punjah-American .	125	April	1934
Westerns .	126	May	"
Miraj			
Surat 1027 ALT.	127	May	1934
Hagari I	128	99	"
Cambodia Co 2	129	**	,,
Gadag I (Dharwar-American)	130	, ,,	**
Surat Tiruppur Cambo lia	131	Мау	1934
		, may	139#
Tarm Westerns	132	,,,	**
Kumpta	133	>>	"
Jagadis	134	**	,,

- (11) Dry and damped cotton —The third set of samples connected with this investigation was recently drawn from the three Amraoti bales kindly placed for the purpose at the disposal of the Laboratory by Messrs Volkart Bros Spinning tests were carried out on lines similar to those made in the first two sets of samples. Fibre tests on the cotton and tests on the spun yarns on this third set of samples are now being made. The fourth and last lot of samples will be drawn and tested in a similar manner after the lapse of a suitable period and the results will finally be written up by the Director on his return from leave
- (ni) Deterioration of Broach cotton —The Board of the East India Cotton Association approved of the recommendation of their Moisture Tests Committee that, having regard to the general view of the Trade that Broach cotton tends to deteriorate more rapidly than other types of Indian cotton, the Technological Laboratory should be invited to investigate this problem and ascertain the cause (s) responsible for this noted deterioration of Broach cotton. The Laboratory accordingly purchased one bale of Broach (Palej) cotton. The first of the series of tests have recently been carried out comprising fibre and spinning tests. Further samples will be drawn from the bale at intervals of six months each and similar tests will be made. It will then be possible to decide if any deterioration has taken place in the grade and strength of this particular cotton.
- (iv) Deterioration of cotton stored at Karachi —In accordance with the arrangement mentioned in the Director's progress report No 20 a third set of six samples was drawn from six of the bales three of which are stored in open plinths and three in a godown at Karachi. One of the Junior Testers from the Laboratory proceeded to Karachi in April and drew the samples. Spinning and fibre tests were made on these samples on exactly similar lines as on the previous occasion after they had been valued by the Special Appeal Committee of the East India Cotton Association. A fourth and last test on similar lines is to be made in October after which it will be possible for the Director to summarise the results of the four experiments.
- (i) Effect of compression in balical cotton The high degree of density to which cotton is pressed in baling was considered as a possible cause of the observed neppiness of 289-F cotton. The Committee at their last meeting in January approved that an investigation of this problem should be accordingly undertaken. For this purpose three bales of 289-F were specially prepared, and the scope of the experiment was extended by including three bales similarly prepared at Amraoti from Berar cotton. Each cotton was pressed into three bales of the same size but in which the weight of cotton differed being 400 lbs, 300 lbs, and 250 lbs respectively. Initial samples drawn from these six bales have been subjected to the spinning and fibre tests and it is proposed to repeat this procedure after a lapse of four months.
- (a) Storage effect on fibre quality—Rao Bahadur Tharumal Bilaram, a member of the Sind Cotton Committee, submitted 10 samples of cotton to the Laboratory with a view to investigate the phenomenon of the heating of seed cotton when openly stored in bulk such being the prevailing practice in certain areas of Sind. He believes that the fibre deteriorates in quality and also that the germinating power of the seeds are affected

The Director, Dr Ahmad, communicated with the Chief Agricultural Officer in Sind in this connection, and, as a preliminary, ordered a summary of the most important results so far obtained by other workers to be prepared, and the matter new awaits disposal by the Director on his return.

(vii) Deterioration of Broach cotton due to damping—The Technological Research Sub Committee accepted the recommendation of the Moisture Tests Committee of the East India Cotton Association that an investigation should be undertaken by the Laboratory to determine to what extent, if any, Broach cotton deteriorates whilst in storage as a result of damping the cotton before pressing it into bale form. Accordingly, four bales of Broach cotton were kindly supplied by the East India Cotton Association from the pressing factory of Messrs. Narandas Rajaram & Co at Palej. These bales were prepared under the supervision of one of the Junior Testers sent from the Laboratory. One bale was pressed dry. The cotton for the other three bales was irrigated with 4 lbs. of water for one bale, 8 lbs. of water for the second bale, and 12 lbs. for the third bale. Spinning and fibre tests have already been made on 12 lb. samples of each of the four lots and further samples will be drawn from the three bales and similar tests made after a lapse of four months. and this procedure will be repeated again twice at intervals of four months each. Unlike the Amraoti bales mentioned at (ii) above the amount of water added to these Broach bales was known and determined beforehand.

IV. Technological Samples.

- (i) Experiments on carding engine—The progress made in this problem has been noted by the Director, from time to time, in his progress reports—The work has, so far, extended over a period of three years and has been made as comprehensible as possible Each test was made on a 10 lb sample, and, in all, three bales have been utilised, namely, one bale each of Kampala, Coompta and C. P. No. 1—And thus the tests cover a wide range of yarn counts and cotton of vastly different character—Certain features connected with these tests are noted in the Physics Section below
- of Mollison, 4F, 289-F and Early Strain on the saw and roller gin and sent the 8 lots of lint to the Laboratory to be tested. With the exception of Mollisoni the saw ginned samples yielded stronger yarns. He also sent samples of these same lapas to be ginned and tested in the Laboratory as a parallel series. The Lyallpur ginned samples of Mollisoni and 4F gave slightly stronger yarns than the same samples ginned in the Laboratory But the 289F and Early Strain were decidedly much inferior, especially the Early Strain Two samples of Gaorani lapas were also ginned in the Laboratory on the saw and the roller gin. The four lots of lint have been spun and the yarns now await to be tested.
- (111) Wax content and feel of a cotton —The results of this investigation were embodied in Bulletin Series B, No 18 This Bulletin was issued during the period under review and a brief summary of its contents is given below in the Publication Section

II Researon Laboratory

Fibre Testing Section —This section has been very fully occupied during the present period and has completed tests on 224 different samples. The staff of this section have also prepared exhibits for the India. House in London consisting of 21 Baer Sorter specimens of the present season's Standard Indian Cottons and also 8 halo specimens of combed seeds selected from these cottons.

Physics Section —Mr Hari Rao has made good progress with his own particular problem which deals with the effect of the "Variation in the strength of cotton fibres with twist"—each fibre so tested is subjected to different degree of axial twist and its resultant strength noted with each degree of twist. He has so far completed tests on Co 2, Verum, Mollisoni and A19 partially, and tests on Banilla and Hagari will be undertaken in due course.

Mr D F Kapadia —The general problem of the effect of "Different carding engine organisations on the quality of the resulting yarns" was begun in June 1931 by Mr Kapadia and the undersigned jointly and the last test of the series was completed recently. Since then Mr Kapadia has been engaged in making the necessary yarn tests and calculations thereon. He has analysed the results of all the tests obtained and is now writing up a preliminary report. The following salient figures afford some idea of the magnitude of the problem. 160 different carding engine organisations were employed using three cottons of widely different quality and from which 320 separate spinnings were made. 32,600 Lea and Pull tests and 32,600 Ballistic tests were made on these yarns for strength together with 64,000 determinations for count. Besides this, 649 determinations of fibre distribution and fibre weight were made on the sliver, flat waste and licker in fly

Mr. R. S. Koshal has continued his part time atude of the plan merime? There is of the Standard Indian Cottons when subjected to the ray of ultra subject, he has been subjected to the ray of ultra subject, he has been at a new to the first the free of weather on the quality of the Standard Indian Cotton. I, and for the party is all to agricultural officers concerned have been invited to limit, furnish the Laborator with records of rainfall and temperature that has prevailed on their respects of rise, from where the cottons were received, during the past times one.

Mr. C. Nanjundayya is now writing an account of his receif in a light of the "Relationship between fibre a trighth and length, rade of eather the or of the second its publication in due course. Of the two problems mentioned in the last processors, wire, "The absorption of mosture by cotton under different device of employing and "The rate of absorption of more ture by different linking writes", "In Normal dayya has so far completed his examination of the extension in the last state."

Dr. R. N. Mathur is fore relinquishing his post, the term of the head for 10th Ma. 1934, submitted a brief account of the results of his "measurer of of rithe analytic of five Standard Indian Cottons and also a short account of his time street its of three density," made on 12 of these Standard Cottons and one of a fet 10th of

Chemistry Section — Mr. D. L. Sea has continued him only on the sale expression of that it was the Standard Indian Cottons, of the Left is on. Here is plant determining the wax content of the come cottons in order to indicate the expression, if any between the amount of dye absorbed by the cottons and the expression and the expression of the expression of the expression of the work on the "Effect of manufactors for the explicit of the work on the "Effect of manufactors will be published in the expression of a bulletin. In addition, Mr. Sen has been enabled in the Mo. Co. The first Sewer Since November 1st, 1933, he has completed to the expression of the expression of the work will be found, under "Mosture Testing Section."

Microscopy Section—In the last program report the Directors and the impressions attached by Cotton Breeders to the imputing of fibral to the artifactor to the imputing of fibral to the artifactor to the imputing of fibral to the artifactor to the order to agricultural samples besides maturity with fibral strongth to the order to the entropy of a Standard Indian Cottons. The forthcoming annual bullet near the Standard Indian Cottons will include this feature of fibral maturity for the first transfer to the coloring of investigating the percentage of mature fibral in various coloring at program to along their preparation for spinning. Side by side with the investigating the percentage of mature fibral with the investigating the proposition on the "growth of hour and reality, after of epidermal cells on the surface of developing cotton seeds."

III Moisture Testing Sterios

The Moisture Tests Sub Committee of the East India Cotton & our on me on the 20th March 1934 and Mr. D. L. Sen the Officer in charge of this Section at Sen and present by special invitation. The meeting considered Dr. Ahmed a life interest which dealt with the moisture tests made between January and June 1935. The meeting ultimately decided that the data available was not sufficient to a grant a definite judgment being formed, and that, therefore, tests should be continued for another var, and that cottons from the United Provinces, Sind, Kathiawar and March Pould be included in the scope of the tests.

The following summary table indicates the number and type of amples tested by Mr. Sen at Sewri during the present period —

December 1933 to May 1934

Appeal Committee		3	s imples
Trade (Indian)		27	-
(Egyptian)		6	
,, (African)		5	
Special Experimental bales		8	
	Total	49	samples

This Section has up to date conducted moisture tests on 625 samples in all since its inception

Publications

The following is the list of the Technological Bulletins and Circulars issued during the period under review -

Bulletins —(1) Technological Bulletin, Series B, No 18, "A Note on the Wax Content of Indian Cottons with special reference to their feel" by Nazir Ahmad, M Sc, Ph D, and D L Sen, M Sc (Tech), A I C

The following three papers were read before the Indian Science Congress held in Bombry on the 2nd January 1934 by the respective authors —

(1) "Effect of Manurial Treatment on the yield, fibre properties and spinning value

of cotton' by Nazir Ahmad MSc, PhD, and DL Sen, MSc (Tech), AIC
(2) "The Application of Modern Methods of Field Experiments for improving the

yield and quality of Agricultural Produce", by R S Koshal, M Se

(3) "New Method for the Determination of the Mean Fibre-length and the Fibre-Weight per meh of cotton" by Nazir Ahmad, M Se, Ph D, and C Nanjundayya,

Technological Circulars - Technological Circulars Nos 110-134 as given on page 79.

During this present period the undersigned re-wrote the initial draft of the bulletin to be published on the "Combing of good quality Indian Cottons" and has also written out the initial draft for the bulletin on "Settings and Twists in Fly Frames" These two problems were mentioned in the Director's Progress Report No 19

GFNERAL

Visitors -Sir Richard Jackson visited the Laboratory on 12th March 1934 in the company of Mr R Fleming Mr Fleming has, one regrets to note, since then passed During their visit they suggested that all the Technological Circulars issued on Trade cottons and which are listed at Table on page 79 above, may be combined at the end of the season and issued as a single bulletin on lines similar to those adopted with the Standard Indian Cottons This suggestion was conveyed to the Secretary as also the further one made by them that each trade cotton incorporated in these circulars could with advantage be valued each year under the same contract The East India Cotton Association have very kindly promised that this suggested procedure will be adopted in the future

Equipment—(1) Blow room Machinery—In accordance with the decision of the Standing Tinance Sub Committee at its meeting held on 17th March 1934 the order for the new extra machinery necessary to bring the existing blow-room plant more up-to date has been placed with Messrs Tweedales and Smalley, Castleton, through their Bombay Agents and delivery of the new machinery may be expected about the end of September

(ii) Testing apparatus —A new Baer's 5 Spindle wrap reel has been added to the Yarn

Testing Section and is giving satisfactory service

(iii) Calculating Machine -Since the 10th February 1934 a new method of calculating and recording the various varn test results has been in force in the Yarn Testing Section In the new method each Junior Tester is relieved of the duty of having to calculate the average of each set of results obtained One of the Laboratory Statistical Clerks deputed for the purpose now takes over the recorded results from each Tester and, by means of the newly acquired Munroe Calculating Machine, automatically obtains a determination of average count, strength, etc. for each set of results This new technique has enabled each Yarn Tester to make something like 30 per cent more tests during the present period

Stapling Apparatus -- Messrs Remfry & Son, Calcutta, the accredited Patent Agents of the Committee, in this matter have obtained the patent rights of the apparatus in India and also in Ceylon and have forwarded applications for similar rights in the following countries, namely, United Kingdom, France, Germany, South Africa, Canada, Australia, New Zealand, United States of America and Irish Free State, and the intimation of acceptance by each country may be received at an early date

One Barnstead's Automatic Distilling Apparatus was obtained for the Chemistry

Section

Staff —The Director of the Laboratory, Dr Nazir Ahmad, proceeded on four months and 23 days' leave out of India on the 13th March 1934 and the undersigned as Officiating Director took over charge of the Laboratory on that date

Mr A B Khan, who had previously been trained and employed temporarily in the Laboratory as a Junior Tester, was appointed on 4th April 1934 on three months' probation to the post of a permanent Jumor Tester recently sanctioned by the Committee

The term of service of Dr R N Mathur who had been employed in the Laboratory as Temporary Research Assistant ended on the 16th May 1934.

During this period, the record batch of rindent-trainer complete Lan 2016, April 1933 their course of study instruction. Mr. L. Trible and a barn a specific each in the Libre, Varn and Spinning Cottons in the order range Label of the Libre specification confined in attention exclusively to the method, employed in the Libre Testing Cons.

Acid of trooter to

I wish to tender than! to on behalf of the Director and tax off, to the Cotto Control who have continued to materially a list the Laborators be entire the non-continued to materially a list the Laborators be entired to exclude for of the Laborators staff who a collective very during this seems that the control of the present Property the subject-matter of the present Property.

Dated the 13th June 1931

rated) P. P. Priferto, , Oh retr. Deeste, Technology at LAT at ter.

APPLADIA AT

Summer 70 -Report of the Agricultural Per orch & holy a stree

A. Report of the Agricultural Residence Ser Country of Property Resolutions Progress of World

The Sub-Committee considered and approved the following process of schemes and the respective programmes of sort for 1972 to process to the records, if any, made against each —

(1) Agric United Per till Stories

Surat Boll norm Clear up Schere (No. 20) — As the change extract of 1002-32 season was quite a function, the period under report a set voted to a state of course on the crop of 1033-31 cason of the effect of the election up. The normalist after the campaign was, prior to this organistic course of notion in 1031, the reserving is fired by boll-worms than the neighbourne are another in more confirmation for the course of notion as marked to the course of the coupleing good and the plants being tall and proline. Such the course of course the coupleing good and the plants being tall and proline. Such the course of course the coupleing shown that the incidence of the period of the period of the course of the course of the period of the course of the cou

The Sub Committee desires to invite attention to paragraph 10 of the Deput 10 or for of Agriculture, Gujerat's letter No. C. 13/2801, dated the 28th May 1931. If 10 percent of the cotton growers fail to adopt the measures which have now been so there only demonstrated, they will defeat the scheme and the election growers, a he are now uprooting stumps, will soon get discouraged. The Sub Committee considers that it should now be brought to the notice of the Government of Bombay that they must be prepared either to provide a considerable sum of money for propagands and for suital's administrative action to secure the continuance of the elective full control manners or to introduce legislation making the adoption of them compulsors.

The outturn too was, in spite of two spells of cold weather 25 per cent more than that of the previous season when almost record yields a ere obtained

Although reliable data regarding yields could not be obtained, the Sub Committee considers that a quantitative record of the actual increases in yield due to control measures will be essential to further progress and that an attempt should be made to get this information during the 1935 picking season. The cost of the necessary arrangements could be met from the very substantial savings on the scheme which, it is observed, the Director proposes to devote to the purchase of stump pullers.

Broach Cotton Breeding Scheme (No 27) —This scheme has now reported on its second year's work. Efforts are being made to combine by hybridisation the high gunning qualities of Goghari and a Viramgam strain with the other required qualities of the Broach desi strain, B D 8

Jalgaon Cotton Breeding Scheme (No 28)—The isolation of wilt-resistant strains possessing also commercially important qualities was in progress, and three promising strains of neglectum have been selected for rigid yield trials during the next season.

Bombay Scheme for the survey of small leaf disease in collon (No 29)—This is a one year scheme which started work in November last—It is said that the severity of this disease varies from year to year, and the last season was one of less severity. The report shows that the disease is of widespread occurrence and affects all cottons except exotics. The symptoms of the disease are described in the report, and it is said that the disease is not caused by any parasitic organisms.

Sind Physiological Research Scheme (No. 30)—The report deals with the work done during the seventh year of the scheme, and shows that the cotton plant requires more water during the flowering and fruiting period than in the early part of its growth. Eight inches of water during the first 28 days followed in succession by two waterings of 3" each at 20 days' interval, then at 15 days' interval and five waterings of 3" each at 10 days' interval have given the best yield. The other main item of work was the study of the effect of application of ammonium sulphate at different growth periods on the yield of cotton. The results obtained were not however significant. Observations on the "red-leaf" disease were continued.

In view of certain comments which have recently been made regarding schemes extending in directions not originally contemplated, the Sub-Committee desires to observe that much of the work described in this report is not, strictly speaking, physiological research but agricultural field experiments on differential irrigation, manuring, etc, which form a normal part of the work of a cotton research station. These experiments are necessary and useful and the point is only raised here to prevent future misunderstandings.

As regards the future programme of work, the Sub-Committee desires to make the following observations —

Item 3(b) is not a very promising line of work and the item is vaguely described Red Leaf is due to a variety of causes and there is possibility of a considerable waste of time in the biochemical experiments proposed. Before starting work on this item, it is suggested that the newly appointed Physiologist in the Punjab should be consulted

Items 3(a) and (c) are accepted by the Sub Committee on the understanding that what is here intended are observations on the cottons grown in the irrigation, manufal and varietal experiments, it is assumed that it is not intended to lay down special field experiments for these observations

Item (5)—Control of White Ants—The results contained in the progress report do not seem to indicate that this is a very promising line of work. But it is presumed that these experiments have already been started so far as the 1934–35 season is concerned

Madras Herbaceum Scheme (No 31)—This scheme has now completed its eleventh year. It was started in 1923 with the object of securing pure strains from local Uppam equal to Karungaini in yield and spinning quality. When this object proved a failure, the scheme was further extended in 1930 for the purpose of obtaining hybrid strains having the characters originally aimed at. The report shows that no tangible results have yet been obtained.

The Sub Committee is definitely of the opinion that the production of F_4 seed in sufficient quantity for commercial use is not a practical proposition

In view of the fact that the hybrid material at present has only reached F_4 , and the scheme is only sanctioned until May 1935, it is recommended that the Secretary and Mr Hutchinson be asked to visit Coimbatore and make recommendations regarding the future of the scheme, if possible before the cold weather meeting

Madras Fodder Cholam Scheme (No 32)—The progress report is for the fourth year and shows that during the year it has been conclusively proved that the ill-effects of cholam on the succeeding cotton crop are not dependent upon the quantity of stubbles left in the soil, nor due to its heavy crop of fodder. It was also found that though manuring with ammonium sulphate increased the fodder obtained by cutting cholam at the shot blade stage, the quantity of fodder was still less than what could be obtained by allowing cholam to set seed. Moreover, manuring hastens car production, which is not desirable

Madras Pempheres and Physiological Research Scheme (No 33)—As the Physiologist has not yet returned from training in England, the investigations during the year were as before confined to the study of the stem-borer. The results of an experiment designed to gauge the damage caused by the stem-borer show that except for the lodging of the plant that might be caused by a weakened stem through the attack of the pest, the loss in yield was not significant. As the pest has been observed to continue to emerge from pulled out cotton stalks for a period of two months and manage to live on other host

plants till the next cotton season, it is suggested in the report, that an effective method of exterminating the pest lay in extending the Pest Act to other cottons as well besides Cambodia, and to advise the ryot to expose the stalks to the direct rays of the sun for ten days prior to their stacking

It seems obvious, therefore, that the control of Pempheres can be attained by these methods and that for this purpose further work on the biochemistry of cotton is not called for Of the actual programme, item (I) is by no means promising as the rearch for tolerant types so far has not been successful

Item (2) is unobjectionable, if the scheme is continued at all

Item (3) does not seem at all practicable in view of the fact that Pempheres is absent from the greater part of the cotton growing tracts in India

Item (4) is practical but does not call for a special research staff

Item (5) cannot be carried out because no such strains have yet been obtained

Hem (6) does not seem to be of practical importance as the experiments already carried out show that there is not much chance of success on a practical scale

Item (7) has already been worked on to a considerable extent and it is doubtful whether further work will enable the conclusions already reached to be greatly enlarged

Item (8) would be of purely academic interest and seems unnecessary in view of the work already done elsewhere

It was reserved for this meeting of the Committee to decide whether this scheme should be continued any longer. In the opinion of the Sub-Committee the Bio-chemical work should now be terminated.

Madras Nadam Cotton Breeding Scheme (No. 24)—The report is for its first year of work. It was noted during the year that in Cambodia fields adjoining Nadam cottons the mortality due to the stom-weevil was 25 per cent as against 1 per cent in fields far away from Nadam cottons. As a type or types of cotton which could be sown and cropped at the same time as Cambodia have first to be selected, world uring the year was directed to sowing trials in July and September.

It is suggested that the Secretary and Mr Hutchinson should visit the scheme and discuss plans with Mr Ramanathan when visiting the Herbaceum Scheme

Punjab Botanical Research Scheme (No 35)—This scheme has just completed its ninth year of life. The jassid-resistant early strain pure line families bred true to extra hairness and were found to be free from jassid attack.

The Sub Committee noted with satisfaction that three useful strains of American cotton had been evolved as a result of this research and that one of these (NT 36 F) is of unusual promise. Five more new strains of American and one of dea have been finally selected during the year under report for field tests. One of these, NT 45, has already been found to be very promising in varietal tests. The results of ridge-sowing experiments of the last seven years show that this method is in no way advantageous.

Punjab Pink and Spotted Boll-worm Scheme (No 36)—Items (1) to (4) of the progress report record an elaboration of details which have previously been reported all of which bear on the problem as to why the incidence of Pink Boll worm is so different in different parts of the Punjab

Item (5) is an important portion of the scheme and the Sub Committee considers that the actual results obtained from the 40 stations should have been reported and suggests that these be submitted to the next meeting of the Agricultural Research Sub-Committee

Programme of work for 1934-35—Item (1) was approved subject to the alteration of the description to study the incidence of the Spotted and Pink Boll-worm in different tracts of the province

Item (11)—The Sub-Committee considers that this item of work would be of academic interest only and that it should not be undertaken

In regard to the proposal for further observations on Pink Boll-worm, the Committee considers that those already recorded are adequate

Item (111) is approved, it being understood that this means observations and counts on the cottons growing in the Cotton Research Botanist's Section

The Sub Committee has no comments to make on item (iv) As regards item (v), this has already been done for Pink Boll-worm both in the Punjab and the United Provinces and work on Spotted Boll-worm mainly seems to be required

Item (11)—The Sub Committee agrees as to the importance of observations on the frequency of distribution of parasites and some work on the life cycle of those not previously worked out would probably be necessary. It does not consider that methods of breeding parasites on a large scale could be successfully taken up as an item of this scheme, this requires special equipment and specially trained staff

Punjab Cotton White Fly Scheme (No 37)—This scheme, which has now completed its third year, has two more years to run. The report shows that the pest lives on cotton from May to September, on cultivated winter crops from October to February, and on cucurbits, melons and ration cotton from March to May. The irrigation experiments show that with increasing water supply the attack of the pest becomes less. As to control measures, a single spraying in July when the pest was severe was more effective than one in August when it had declined and gave an increased yield of two maunds per acre.

Method of determining comparative infestation described on page 2 of the progress report It does not appear to the Sub Committee to be the best possible. It would be better to take about 100 leaves at random throughout each plot. Results from one or two parts are not likely to give reliable figures. The figures for the range of variation in the p^{H} of different leaves indicate that this is not worth continuing

Item 1 on page 1 appears to the Sub Committee to be too academic, the second item is more important. The experiments carried out in caged plants are on too small a scale and a much larger number of plants is necessary in order to obtain reliable results. The table on page 6 does not show the effect of White Fly infestation on the yield of laps which is the important point.

Programme of worl in 1934-35—The Sub Committee considers that item 1 (1) should be omitted as too academic. In item 1 (2) it would be better to determine the effect of differential irrigation on infestation and yield of cotton

- Item 1 (3) again seems to be largely of theoretical interest
- Item (11) would be improved by the addition of a potash manure to the series
- Item (v) does not appear to be very practical as most of the soils in the Punjab are neutral or inclined to alkalinity and the proposed nitrogen study if properly done would be much extensive
- Item (1x) in the opinion of the Sub Committee is quito outside the scheme and should be omitted
- Hem (x) does not seem to be calculated to yield any definite information since, as described, it would not determine the effect of parasites
- Item (x1) It is doubtful whether any further experiments are necessary or practicable

Item (xiii), in the opinion of the Sub Committee, is entirely outside the scope of the scheme and should be omitted

Punjab Spraying Trials Scheme (No 38)—This is only an interim report. Three different kinds of sprayers, 112, the Sapom Sprayer, the Hardie Power Sprayer, and the Orchard Power Sprayer were tried. The insecticides used were rosin compound, rosin soap, calcium cyanide and nicotine sulphate. Though the last mentioned sprayer proved the most effective in destroying the pest, it was found to be very expensive. The Sapom Sprayer working with one nozzle per row of cotton could destroy just over 70 per cent of the pest at a cost of Rs 1-5-4 per acre, against Rs 1-9-5 with Hardie Sprayer which killed over 83 per cent of the pest.

The Sub Committee notes that the actual yields on sprayed and unsprayed plots have not been stated. The Sub Committee desires to emphasise the need for full details of the yields in the next report. Individual yields should be shown in order that their statistical significance may be ascertained.

Punjab Root Rot Scheme (No 39)—The Sub Committee note that as a result of the investigation, two species of Rhizoctonia are regarded as primarily responsible for the disease, but that the vigour of attack is increased when certain other organisms are associated with these two species of Rhizoctonia. As the scheme has only one more year to run, the Sub-Committee suggest —

- (a) that these results should be confirmed,
- (b) that attention should be concentrated on-
 - (1) determining whether any soil treatment reduces Rhizoctonia attack.
 - (11) determining whether Rhizoctonia-resistant strains of cotton exist,

This means a considerable reduction of the proposed programme which is regarded as too diffuse. Items 8, 9, 10, 11 and 12 might, with advantage, the omitted.

Punjab Defibrating and Delinting Scheme (No 40).—The machines were received only recently and such tests as have been done are not considered to be of any value.

Central Provinces Botanial Scheme (No. 41) —Late Verum and V 434 were subjected to severe field tests during the year under report. Late Verum spins up to 34's and is also the best yielder of all new strains. It is expected to cover an area of about 16,000 acres in the current season. V 434 is next to Late Verum in yield and spins up to 32's About 2,000 acres are expected to be sown to this strain during the current season.

Work on Bani E.B 31 and Bani 306 was continued.

A few high yielding white linted strains have also been isolated from Chanda Jan and after further testing, the best of them will be retained for multiplication. A few promising strains of Buri (Gossipsium hirsutum) also have been selected and attention is being paid to remedy the defect of weak staple.

United Provinces Entomological Scheme (No 42)—The Director of Agriculture states that he expects this report to be ready in time for the next meeting of the Committee The United Provinces Government are now considering the proposals for actual control measures, financed in part by a cess, proposed by the Committee which they appointed to consider the results obtained. They have asked the Committee to assist them in preparing public opinion for the necessary legislation by the loan of the Publicity Officer. The Director of Agriculture explained that the Publicity Officer would be required for a fortnight in early September and a fortnight in early October to obtain first hand information as to the way in which the control measures are working in the present demonstration areas and for a period of about three months during the cold weather to tour there in the cotton-growing tracts and to carry on propaganda. The Sub-Committee wishes to commend this proposal to the careful consideration of the Central Cotton Committee without committing itself in any way in regard to its attitude towards the proposed Pink Boll-worm Extension Scheme.

Scheme for survey of cottons in Robilhand and Bundelhand, United Provinces (No 43) — The report shows that 1,852 villages out of a total of 2,791, cotton growing villages in Budaun, Bareilly and Nami Tal districts and Rampur State were covered during the year and over 5,000 samples of cotton were collected and critically examined. A particular type of new plant having the external characters of G neglectum roscum with better fibre length was noticed throughout the area surveyed and it will be examined for its purity.

Institute of Plant Industry, Indore (No. 44) —To speed up genetic and plant breeding work on cotton by growing two generations a year a small green house has been erected at the Institute. A considerable quantity of new research equipment has also been added. Two strains of Malvi cotton have been finally selected as suitable for distribution in the Malwa tract. As for the Nimar tract selections have been made from designand. "Malan" cottons to be tried during the ensuing year. A botanical survey of the cotton crops of Malwa and Nimar tracts shows that the ratios between Malvi and research types in these tracts are as 6 to 1 and 2 to 7 respectively.

Hyderabad Botanical Research Scheme (No 45) — During the year under report seven pure strains were compared with local mixture Gaorani Umri. Three of these, which are superior to local mixing in fibre length and ginning outturn, were also found to be definitely superior to it in yield

In another set of varietal tests only Havri-3 proved better yielding than the control (Aurangabad Local) There were also two other comparative tests of other strains to select the most suitable strains for the Gaorani and the non-Gaorani areas.

186 pure line progenies and 263 progenies of new selections were examined In addition 100 plants selected this year have been retained for study in the next season

Item 2 in the programme of work should be decided on in consultation with Rai Saheb Sawhney on his return, as the Sub-Committee is of opinion that this work would be too much and would necessitate curtailment of programme in other aspects

Hyderabad Pink and Spotted Boll-worm Scheme (No 46)—The Sub Committee have the following observations to make on the progress report on this scheme. There is no need to follow up further the degree of attack in cotton shoots. The work on buds has been limited to the experimental farm and the numbers examined are insufficient. It is necessary to examine buds collected over a much wider area, conclusion 2 under this section is thus premature.

Open flowers—It is unnecessary to remove flowers from the plants for examination. This can be effectively done in the field. Flowers from a much wider area should be examined.

Green bolls—Here also it is necessary to examine material from a wider area and not only from an experimental farm. It is noticed that the incidence of the pests increases up to February and March, this is unlike the results obtained at Cawapore. The figures presented show that there is a very considerable measure of attack and that work should be continued and expanded.

Letimate of crop loss—Much more extensive data would be necessary in order to enable a representative figure for the Hyderabad State to be obtained but it should be pointed out that the loss of lapas is represented not only by the number of totally unpickable bolls but by damage of locks in lines not totally unpickable and that, the figures given on page 1, the loss of lapas was at least 20 per cent

Hibernation of Platycdra—This is the most important part of the work and it was observed that a large proportion of long cycle larvæ occurred. The question of hibernation in the soil should be tackled at once, and thoroughly, in order to ascertain whether the carry over from season to season in the soil would be sufficient to defeat practical control measures consisting of seed treatment plus a close season.

The question of alternative hosts is also important

Programme of worl for 1931-35—Item (1)—Before this can be done it is necessary to find out whether reinfection from the soil takes place when the soil is left undisturbed

- Item (2), as already indicated, requires to be carried out on a broader basis
- Item (3) is the essential portion of the scheme but, unfortunately, no particulars of the work proposed have been presented
- Hem(1) —The organisation of a control area would involve an area of 200 square miles in which
 - (a) all cotton stalks would be removed and burnt (or otherwise disposed of) before the end of May,
 - (b) only treated seed would be sown, and
 - (c) no untreated seed for cattle food and no unginned Lapas would be allowed to be lept after the 31st of May. If such a control area could be properly worked, it would at once give the answer to the question whether control by the above means is practicable or whether it would be defeated by other methods of carry-over of the pest from season to season. But the Director of Agriculture, Hyderabad, does not consider that such an area could be worked at present.

The information now before the Committee shows that Pink Boll-worm is a serious pest of cotton in Hyderabad State. The question of the hibernation of this pest in soil and other methods of carry-over in black cotton soil areas is of great importance to the whole of the black cotton soil tract, say, some nine million acres of cotton. The present staff employed on this scheme is not capable of doing the work which is now considered necessary and the Sub Committee recommends that the services of Mr. Nangpal, one of the Committee's employees who is now available on the termination of the United Provinces Pink Boll-worm Scheme, should be utilised for the purpose. The cost of this proposal would be approximately Rs. 7,000 per annum for the two-year period, viz.

		${f Rs}$	
Pay at Rs 450 per mensem	••	5,400 p	er annum.
Rent for house and laboratory, say	•	600	,,
Travelling allowance, say		1,000	,,
Peon		150	,,

The Sub Committee considers that the critical information could be obtained by a fully trained and experienced Entomologist in two years. The need for this appointment arises from the fact that the Hyderabad State has no Entomologist on its staff. In view of the importance of the problem the Committee might well bear the cost of this Entomologist. The Sub-Committee does not consider that the Cotton Research Botanist can be expected to do this work in addition to his own,

Co ordination of the Hyderabad Pink and Spotted Boll-worm Scheme and the Central Provinces and Berar Entomological Scheme —Reference from Special Meeting of Agricultural Research Sub-Committee

In considering the progress report on the Hyderabad Scheme, the Sub Committee came to the conclusion that the principal necessity is a fully qualified Entomologist to carry out research work on the lines there specified on Pink Boll-worm under black soil conditions. It is not possible for the Government Entomologist, Central Provinces, to undertake the supervision of any work outside the provinces but he is quite capable of looking after the work for which a grant has been sanctioned. It would however be quite feasible for a mutually agreed programme of work on boll-worm in the Central Provinces and in Hyderabad to be adopted and the Sub Committee considers that this course should be followed. The Director of Agriculture, Central Provinces, agrees and is further of the opinion that the appointment of an experienced Entomologist for Pink Boll-worm work in Hyderabad would definitely be of assistance to the Central Provinces. The Sub Committee considers that this is the best method of securing the co-ordination of the two schemes and that it would lead to more effective work although it would not reduce the cost.

Hyderabad Cotton Survey Scheme (No. 47)—The year under review is the third working year. As in previous years, 167 seed samples collected from villages were grown on the farm for botanical classification. Also cultivators' fields in 106 representative villages were visited for a study of the botanical species and varieties grown on them. Selections of promising individual types have also been made.

Bilaner Gang Canal Scheme (No 48)—The report shows that of all cottons so far tested Mollison; is best suited to the agricultural conditions obtaining at Ganganagar Of the exotic cottons tested 289F seems to be fairly promising. Attention is also being paid to the selection of better strains from Mollison.

Baroda Root Rot Scheme (No 49)—This scheme has completed its second year Cultures from affected roots of cotton have given again the same organisms obtained the previous year. These were also found in the roots of other plants suffering from similar disease. The Sub Committee notes that here, as in the Punjab, a species of Rhizoctonia is considered the main cause of the disease. Plants less susceptible to the disease have also been selected.

Burma Cotton Improvement Scheme (No 50) —The report is for its third year of work 18 demonstrators were at work and demonstrations of improved methods of cultivation were conducted on 57 holdings. It is stated that the average yield of seed cotton per acre on the demonstration holdings was much more than that in the respective "Kitans" in which they were located. Improved methods were adopted by SS5 cultivators during the year under report, and the total area covered was 19,997 acres.

The Sub Committee confirmed the opinion of the Special meeting of the Agricultural Research Sub Committee (June 1934) that the scheme should be continued till the end of its sanctioned period and that no further extension should be granted

Plant puller propaganda scheme in Surat and Broach Districts (No 74) —Propaganda through posters, leaflets and magic lantern lectures was carried out in Broach and Surat districts during the months of March to June 1934—In Broach District 3,440 pullers and in Surat District 7,161 pullers were purchased by the cultivators

(2) Seed Distribution and Extension Schemes

Hubli Scheme (No 51)—In 1933-34 season 1,266,320 lbs seed sufficient to cover about 131,708 acres was distributed in the area served by the Hubli Cotton Sale Society besides the 326,445 lbs supplied to other parts of Dharwar district and elsewhere. The Department of Agriculture arranged during the year 24,000 acres of reserved area.

Gadag (Extension) and Gadag (Supplementary) Schemes (No 52)—In 1933-34 the Society distributed 758,397 lbs pure seed, enough to cover an area of about 75,000 acres, and the Department of Agriculture organised a seed growing area of about 24,620 acres.

Surat Scheme (No 53)—During the year under report, 886,771 lbs of 1027 ALF seed were distributed in the Surat tract besides the 1,660,980 lbs supplied to adjoining Indian States An interesting feature is that 285,000 lbs seed was purchased for sowing by the Sonsek Group of Co-operative Societies which had hitherto refused to grow this cotton.

Khandesh (Banilla) Scheme (No. 54)—The scheme is divided into six stages from the production of selfed seed on an area of five acres to covering the whole Khandesh tract with pure seed. The scheme has now completed the first four stages. The actual area sown during the year was 12 900 acres and the total quantity of seed obtained from this area was about 1 450 000 lbs, which would be enough for over 100,000 acres. Prices obtained for Banilla were satisfactory.

The Sub Committee considered that spinning tests on Banilla should be supplied along with the Progress Report as the Committee should keep an eye on whether the cotton has continued to deteriorate as in the first few years it was grown

Athani Scheme (No. 55)—From the reserved area of 7,157 acres which was maintained during the year 298 760 lbs of pure seed had been obtained at the time of the submission of the report. But for the damage done by floods which devastated 4,000 acres the programme laid down would have been adhered to. More seed was expected to be purchased and stocked for distribution during the current year.

Sind Schem (No. 56)—During the year under report the work continued on the same lines as in previous years on both the Right and the Left Banks of the river Indus. On the Right Bank 27 W. N. and 41-98 were demonstrated at 35 centres and practically everywhere the latter proved the better yielder of the two. The superiority of 4F-98 over 27 W. N. and 289 F-1 was also proved by the results obtained from the comparative tests of these cottons. The publicity and propaganda work of the past 2 to 3 years has resulted in an area of about 1 500 acres being brought under cotton during the year by zamirdars themselves.

The results of the comparative tests carried out on the Left Bank in 22 centres in the main cotton growing areas show that 27 W N and 289F-1 are best suited to Eastern Nara and Nawabshah districts and 289F and 4F-98 to Southern Jamrao tract, in Hyderabad District 285F-2 and 289F-1 did better than the other two varieties. As a result of these demonstrations, the area under cotton in this tract has increased from 3,000 acres in 1931-32 to 28,000 in 1933-34

The Sub Committee is of opinion that attempts should be made at as early a date as possible to fix zones for the different kinds of cottons to be recommended. The publicity and propaganda campaign initiated during the year proved to be very useful and the Sub Committee recommends that it should be continued.

Madra* (Tiruppur) and Co 2 Schemes (No 57)—In 1932-33, the Department of Agriculture organised a seed farm area of nearly 2,000 acres which produced 498,600 lbs pure seed sufficient to cover an area of about 20,000 acres

In 1933-34, the seed farm area, as stipulated was extended to more than 4,000 acres which were expected to yield 10 lakks pounds of pure seed enough for about 40,000 acres. The Report contained a considerable amount of extraneous matter not connected with the scheme and the Sub Committee recommends that these reports should be as concise as possible consistent with clearness. Very little idea was given as to what had been spent from the funds sanctioned. The scheme however worked satisfactorily.

H1 Scheme (No 58)—The Department of Agriculture supplied the Guntakal and Hagari Co operative Societies with sufficient pure H1 seed for sowing on a controlled area of 10,000 acres. Of the seed obtained from this area about 1,000,000 lbs have been stocked by the two Societies, the rest being left with the cultivators. In addition the Department of Agriculture arranged, as usual, a seed farm area of 2,895 acres under their own control and the seed secured from this area will be handed over to the Societies.

It has been admitted in the Progress Report itself that the scheme generally did not work satisfactorily. The Sub Committee considers that the scheme as at present exists should be closed down and a fresh one started if it overcomes all the difficulties encountered in the past season, proposals for which are mentioned in the Report

Central Provinces (Verum) Scheme (No. 59)—In 1933-34 season, the Department of Agriculture distributed 2,568 khandies of pure seed which was enough to sow an area of 89,560 acres, and sold through pools 5,087 bales of pure Verum cotton—The premium obtained for cotton varied from Rs. 24 to Rs. 45 on Broach F.O.R. Bombay basis

3,864 khandies of Verum 262 seed and 181 khandies of Late Verum, V. 434 and Bani seed have been stocked for distribution in 1934-35 season

The working of the scheme was very satisfactory and the Sub-Committee recommends that it should be combined with the new Extension Scheme already sanctioned as suggested by the Director of Agriculture (Subject 87)

Hyderabad Scheme (No. 60)—During the year under report, the Department of Agriculture purchased from the Sale Societies 330,260 lb. Javawant and Upland reed and distributed the whole quantity in 136 villages for soving on an area of nearly 17,100 acres. In addition, enough Jayawant seed for another 7,000 acres was distributed by the Kopbal Sale Society and the cultivators themselves.

The Director of Agriculture informed the Sub Committee that arrangements are being made by the Hyderabad Agricultural Department to organico local reed production under their supervision in order to obviate the necessity of importing large quantities of reed from the Bombay Presidency.

Statement of costs for cotton ginned at the Lyallpur Ginnery (No. 61) -- Total costs of ginning one maind of lapas was Re. 0.2-9 for saw gin and Re. 0.7.10 for roller gin

Barola Scheme (No. 62) —28,000 lbs pedigree seed and 11,200 lbs pure reed of 1027 A L F cotton, enough to cover an area of roughly 2,000 acres were distributed for reed multiplication to the members of the four cotton groups at Maroli, Umbbel, Dhundhers and Kosamba. In addition, from the five seed depots at Maroli, Venna, I mbbel, Palen and Kosamba, 218,100 lbs of pure 1027 A L F seed received from the Bombay Agricultural Department were distributed on mass scale.

The Sub Committee suggests that a larger area than that suggested in the projection should be controlled in view of the fact that Baroda has an area of nearly two lables of acres under cotton

(B) REPORT OF THE AGRICULTURAL RESIDENCE SUB-COMMITTEE OF EXTENSIONS AND MODIFICATIONS OF OLD SCHOOLS

(1) Agricultural Research

Scheme for Survey of Small Leaf Disease of Cotton in Bombay Presidence—The Sub-Committee does not recommend the extension of this scheme as the collection of further information will serve no useful purpose

Punjab Spraying Trials Scheme-Modification of programme-The Sub Committee approves of the action talen by the Director of Agriculture

Gujerat Plant Puller Propaganda Scheme—As the original reheme was highly successful during the year and in view of the good vorl accomplished the Sub-Committee recommends the extension of this scheme for a period of two years et an estimated cost of Rs 19,010 to be financed from the remaining belonger rayed under the Clean up Scheme

(2) Technological Research

Technological Assistant, Gujerat —The Sub Committee recommends the extension of the appointment of the Technological Assistant at Surat for a period of five years

(3) Seed Distribution and Extension

Central Provinces Verum Scheme—At the request of the Director of Agriculture, Central Provinces, the extension of this scheme was not separately considered, as this scheme is incorporated in the revised proposals for the "Scheme for extension of long staple cotton in the Central Provinces and Berar" submitted at this meeting (vide Subject 87)—The Sub Committee recommends that an additional grant of Rs. 1,35,022 spread over a period of five years and two months be made to this extended scheme in addition to the grant already made at the last meeting of the Committee

(C) REPORT OF THE AGRICULTURAL RESEARCH SUB COMMITTER ON NEW SOIEMES

(1) Agricultural Research

Gujerat Root Rot Scheme (No 63) —In view of the fact that schemes on the same subject are in progress in the Punjab and Baroda State and are obtaining results, it seems unnecessary to sanction another scheme on the same subject

Scheme for the study of "Lang" caterpillar pest in Guyerat (No 64)—"Lang" (Chickling Vetch) is a crop which gives the cultivator a gross return of Rs 30 per acre for its grain and fodder besides being a short period good leguminous rotation and cleaning crop for cotton, and a caterpillar pest has lately been causing damage to this crop in Gujerat to the extent of 30 to 90 per cent. The Bombay Department of Agriculture, therefore, proposed an investigation of this pest for four years and four months at an estimated cost of Rs 11,683 plus leave salary

In the opinion of the Sub Committee this is not a cotton problem and not suitable for a grant from the Central Cotton Committee

Gujerat Gorhan Survey Scheme (No. 65)—This scheme is a necessary corollary to the accepted policy of the Committee to grow only 1027 A L F in the tract lying south of the Nerbudda and the scheme proposes to make an extensive survey of the cotton field in the tract with a view to stamp out Goghan from wherever it is found. The Sub-Committee recommends that this scheme be sanctioned for a period of five years at an estimated cost of Rs. 5,000

Barola Gorham Survey Scheme (No. 66)—This scheme is, in its object, identical with the Gujernt Gogham Survey Scheme, and will take concerted measures in the Barola State territories included in the tract. The Sub Committee recommends that the scheme be sanctioned for a period of five years at an estimated cost of Rs. 5,000

Punjab Jassid Sch me (No 67) —This scheme which was referred back to the Director of Agriculture, Punjab, at the last meeting for modification of programme, is now resubmitted

The Director of Agriculture, after discussion desires to withdraw this scheme. The Sub-Committee agrees that regular of servations on the Jassid resistance or susceptibility of the new strains of cotton produced by the Cotton Research Botanist are necessary but considers that for the present this can be done by the existing entomological staff at Lyallpur. If the Director of Agriculture finds that this is not possible, an application for an Assistant for the purpose should be made in due course.

Red Leaf Discrete Science (No. 68) —This disease of American cotton in Mysore is said to cause an annual loss of about 520 bales, and is a factor which limits the cultivation of American cotton

Red Leaf in cotton is considered to be an All-India problem. It is part of the larger problem of the satisfactory acclimatisation of American cottons in India. A good deal of work has already been done on it in other parts of India. It is therefore recommended that the Scentary be requested to obtain all relevant information from workers on the problem in other areas, particularly Sind, the Punjab, the Institute of Plant Industry and Coimlatore. The scheme should be considered in the light of the information collected, at the cold weather meeting

Bombay Seed Defibration Seleme (No. 73)—The Vice-President offered to have one defibrating machine put up at Palej in connection with ginneries there, and to supply seed and power free as required. The machine would be provided and installed from the Indian Central Cotton Committee funds and would remain the Indian Central Cotton Committees property. The Sub Committee willingly agreed to accept this kind offer

The Director of Agriculture Bombas, withdrew his request for the other two machines, as he believed all the necessary information could be obtained from the machine to be installed at Palcj. It was noted that the Punjab machine had been installed at Khanewal in connection with the Khanewal Cotton-growing Syndicate's plant at that place

Mr C G Paranjpe, Agricultural Engineer, Bombay Presidency, then drew up a revised budget for the working of one machine at Palej for one year, which is appended, with an explanatory note (Enclosure I)

Baroda Plant Puller Propaganda Scheme (No S6)—The Committee in sanctioning the Plant Puller Propaganda Scheme for Broach in August 1933 agreed that if the results were satisfactory, similar propaganda might be necessary in Baroda State

The Sub Committee approves in general the Baroda Scheme and recommends it for adoption at an estimated cost of Rs 9,380. It suggests however that the pay of the Graduate Assistants should not exceed Rs 70 per mensem and that after the first year of intensive propaganda a larger number of Kamgars on lower pay might be employed instead of the more expensive Fieldmen

(2) Technological Research

Technological Assistant in Sind —The Sub Committee recommends the appointment of a Technological Assistant in Sind for a period of three years

(3) Seed Dis'ribution and Extension

Wagad Seed Distribution and Extension Scheme (No 69)—The Sub-Committee reconsidered this scheme in accordance with the decision of the Special meeting of the Agricultural Research Sub-Committee

Mr Patel in forwarding the Scheme wished to have an organisation ready to put out a new Cross with which he is working and which he expects will be considerably better than Viagad 8. The locality has percular local difficulties in getting a new cotton taken no and it was his suggestion that the D-partment would like to work out a way which would be likely to succeed so that when the cotton is ready for distribution no time would be lost in getting it taken up. In view however of the decision of the Special Sub-Committee held in June, it is Sub-Committee feels that it cannot recommend a scheme which has an element of emporient in it. It feels however that the Committee might help in this work and would suggest that Mr. Parel one ked to put up a modified scheme to cover the initial stages of testing and distribution

6. 462 Ad-me (No. 81)—This selecte has already received the approval of the Agricultural Released Sub-Committee, the final decision regarding funds being left to the Manding Finance Sub-Committee which decided in February 1994 that it should not be put into operation for the present

The Sub-Committee now recommends that the question of starting it from the year 1935 should now be recommended. The area suitable for the cotton under this scheme is about 30,000 aureo spread over two districts and may be extended over four other districts covering another 30,000 acres. The crop being impaired yields about 800 lbs. but acres

In view of the importance of increasing the supply of staple cotton in India, the Sub-Committee considers that this strong is of sufficient importance to viewant a grant from the Indian Central Cotton Committee, and that it should be considered by the Standing Finance Sui-Committee in relation to the financial position of the Committee.

D, Ribbet of the Armstltubal Resulpey Sub-Committee of Rishabse Students

The Sat-Committee confidered and approved the progress reports and programmes of north of the following research chaden to —

11, If Tabler Ahmed under training in Entomology at Cambridge under the 2 D. Irms

Dr. A. D. Imms
12, Mr Sant Sing: Verma under training in Plant Physiology at London under
Perfector Plant man.

Professor Blac smart.

(3) Mr. S. N. Venlarramaran under training in Statistics at Calcutta under Professor P. C. Mahalanohis

The Sub-Committee resemmends the proposed extension of Mr. Sant Singh Verma's a holaming by five months.

In view of the nature of the creeding work likely to be undertaken by Mr. Venkatramanan, it is viz, well that the perintary should write to Professor Hahalanobis and ask him if some consideration may be given to work on third degree statistics as outlined in a paper by Figher Immet and Tedin on their use in the study of quantitative inheritance.

The Sul-Communities also approved of the final reports of Mr. Bravandra Nath Bhargava (Cotton Marketing and Economies, Lucknow) and Mr. Bhola Nath (Plant Breeding and Cytology, Indoor, The former need not be published, and the latter may be included in parkers to be published at a later stage. The modified programme of work of Mr. Shama Irenger due to the curtailment of study leave was also approved.

The Sub-Committee notes that Mr Broke Nath has been offered a post at Indore, and that Mr. Madan Lal Bratia is proceeding to Cambridge for further studies, and that there is no post open for Mr B M Bhargava

In view of the potentially of a U.P. candidate proceeding to Cambridge to study Genetics under Professor. Biven, the Sub-Committee recommends that the award of a scholarship in Generics sanctioned previously may be held in abeyance.

The Sub-Committee recommends the following training grant, the application * for which is attached —

(1) Rs. 160 per mersem to Mr. Name Ahmad (Punjah) for two years for studies in Entomology at the Imperial College of Science and Technology, London.

The Sub-Committee coundered Mr Aklar Ah's (Punjab) application for a training grant of R= 170 p-mers-m for higher studies in plant breeding in England and recommends that he be given one rear's training in plant breeding at Indore under Mr. Hutchinson. Further consideration of his application may be postponed until a report is reserved on his work at Indore from Mr. Hutchinson.

(E) GENLEAL

Disease of Malformation in cotton—The Sub Committee noted the replies received from the Directors of Agriculture on this subject

Minimum staff in each scheme—The Sub Committee considered Mr Ramanatha Iyer's letter on the subject and decided that a uniform standard of staff for all schemes of a similar nature is neither possible nor desirable. It agreed, however, that staff proposals should be carefully scrutinised.

Monograph on Swat Physiological Research Scheme—In the opinion of the Sub-Committee it should be pointed out to Mr Joshi that the object of the research was to study the shedding of buds, bolls and flowers and that though he has emphasised the effect of nitrogen on the yield of cotton, he has not brought out clearly the effect of nitrogen deficiency (and of remedying this deficiency) on boll, bud and flower retention although he has data from which this could be done. The Sub-Committee considers that its previous recommendation should be accepted. The author has complied with the Sub-Committee's suggestions in two respects. As regards the method used for nitric nitrogen and its relative sensitiveness, the Sub-Committee still have no objection to this being left to the referee to whom the paper will be referred in due course. The same applies to the data about evaporation as to the value of which the Sub-Committee is in doubt.

The Sub Committee considers that the monograph will be improved by condensation—especially as there are 15 pages of introductory matter and chapter 6 is both lengthy and diffuse. There is room for condensation without omission of any actual data and the Sub Committee advises this course.

The report may then be submitted to the Imperial Council of Agricultural Research direct

Madras Pempheres and Physiological Scheme—The revised list of apparatus submitted for approval in itself is quite reasonable. As however the Sub Committee does not recommend the continuance of the bio chemical part of the scheme, there is no need to sanction the list of apparatus.

The Sub Committee decided that the composition of the Sectional Sub Committees with the subjects allotted to them be intimated well in advance so that members may have sufficient time to acquaint themselves thoroughly with the schemes which they are expected to comment on

The Sub Committee also decided that in Seed Distribution Schemes a short resume should be given from year to year showing the progress made not only in the year under report but in previous years. This is to enable the Committee to see at a glance what progress has been made from the beginning of the scheme

The Sub Committee recommends that in all Seed Schemes intensive propaganda should be carried out by all possible means against the inferior cotton grown in the tract and in view of the efficiency and usefulness already demonstrated of such work conducted by the Publicity Officer of the Indian Central Cotton Committee, notably in the case of the Sind Seed Extension Scheme and the Broach Clean-up Scheme, the Sub Committee recommends that fuller use be made of the services of the Publicity and Propaganda Officer

Enclosure I.

Revised Estimate for a Desegundo Defibrating machine to be installed at "Palej" at Sir Purshotamdas Thakurdas Ginning Factory.

Candal Formandeless

	Capital Expenditure	
1	One Desegundo Defibrating machine complete with Fast and Loose	Rs
	Pulleys	2,850
2	Driving Pulley on countershaft with suitable belting	150
3	Lint Chamber	150
4	Feeding platform	110
5	Spare fibrating elements	87
6	Transport, insurance and fixing	250
7.	Sundries	100
	Total initial outlay	3,697
	Say	3,70 0

Recurring Expenditure.

1	One Operator on Rs. 70 pcr mensom and a mate on Rs 30 per men	som		
	for six months .	• •	600	
2.	Travelling allowance .		150	
3.	Cost of seed for treatment and observation	•	500	
4	Unskilled labour, transport on finished seed and sundries.		500	
			•	
	Total recurring expenditure per year	•	1,750	

The output of the machine per hour is 8 cwts and if it is worked for 100 working days in the season at 8 hours a day, it will deal with 6,000 to 6,400 cwts of seed. The defibrated seed can be sent out to the Cotton Breeders for germination tests and to the Live Stock Expert to Government for feed tests. A portion of the seed can also be sent out for hulling and expressing oil through Rotary mills and through the Oil Expeller with a view to see whether the expensive and complicated method of expressing oil with a Hydraulic Press can be eliminated. The last experiment will be conducted on a very small scale and will not involve much expenditure as it will be carried with those who are prepared to help and co-operate with the Department.

APPENDIX VII

Subject 71-Report of the Standing Finance Sub-Committee-

- (a) Balanco Sheet as at March 31st, 1934
- (b) Final Accounts, 1933-34
- (c) Revised Estimates, 1934-35
- (d) Budget for 1935-36 (Government servants)

The Standing Finance Sub-Committee held five meetings since the last meeting of the full Committee in January 1934 Mr J O G Barnes having retired, his place on the Sub-Committee was taken by Mr G C R Coleridge and on the latter's resignation, Mr F G Travers has been appointed in his place Mr J Vonesch has temporarily gone out of India, and under Rule 4 of the Rules under Section 16 of the Indian Cotton Cess Act, Seth Sakarlal Balabhai has been appointed to fill this casual vacancy

- 2 A Balance Sheet of the Committee's accounts, as at March 31st 1934, is submitted This shows the income and expenditure under the budget heads from the beginning of the Cotton Cess, i.e., for eleven years, and has been prepared from the audited accounts A Balance Sheet of the Provident Fund is also enclosed
- A statement of accounts for the year 1933-34 as audited by the Committee's Auditors is attached, together with a detailed account of the Final Accounts. From this it will be seen that cotton cess receipts amounted to Rs 5,83,672-8-7 against a revised estimate of Rs 5,00,000. Interest on investments came to Rs 1,32,624-0-5 against Rs 1,33,700 estimated. Expenditure amounted to Rs 9,42,986-13-9 against the revised estimate of Rs 12,34,925 5-0. There were savings under practically every head of expenditure and these are available for future use, if required, except the savings under "Administration", "Improvement of Cotton Marketing", "Printing and Propaganda", "Technological Laboratory—Working" and "Research Studentships". The closing balance on the 31st March 1934 was Rs 27,49,659-14-7 against Rs 29,69,850-9-9 last year, so that the Committee had to spend Rs 2,20,190-11-2 from the Reserve

A statement of the Provident Fund account for 1933-34 is also attached

- 4 The Revised Estimates of Receipts and Expenditure for the current year are enclosed and are subject to alterations recommended by the Agricultural Research Sub-Committee and approved by the full Committee No change has been made in the estimates for Cotton Cess and Interest Due to heavy sale proceeds, the Miscellaneous Receipts have been raised to Rs 4,000 against the estimate of Rs 2,500 The expenditure has been estimated at Rs 13,78,021-8-0 against the sanctioned budget estimates of Rs 13,68,960-4 0, the increase of Rs 9,061-4-0 being chiefly due to additional requirements under the various schemes
- 5 As required by the Cotton Cess Rules, the Budget for 1935-36 for the pay of Government officers and other permanent Government servants employed by the Committee is submitted for formal sanction.

- 6 The Sub Committee also dealt with the Government accounts for 1933-34 for the funigation of American cotton and its recommendations form a separate subject on the agenda of the Committee.
- The Indian Central Cotton Committee at its last meeting, while adopting the report of the Agricultural Research Sub Committee, approved of the order of priority in which the new research and seed schemes and the extensions of schemes already under operation might be sanctioned, and agreed to refer to the Standing Finance Sub Committee the priority list in order that it might take into account the present financial position of the Committee and decide which of the schomes should be sanctioned forthwith. The Sub Committee at its February meeting considered the subject and sanctioned all selumes except the new scheme for the propagation of C 402 cotton in the Hardor and neighbouring districts of Lucknow and Sitapur, United Provinces Sub Committee considered at its subsequent meeting the request of the Director of Agriculture, United Provinces, for a reconsideration of its decision and decided that since there was already a break in the continuity of the seed distribution work, it was desirable to put off the consideration of the subject till the Agricultural Research Sub Committee at its special meeting to be held on the 29th June 1934 had down its research and seed distribution policy. The Sub Committee considered the subject again and decided to refer it to the Agricultural Research Sub Committee to be held on the 25th August 1934. This forms a separate subject for re examination with regard to its urgency or necessity on the agenda of the Committee
- S The Joint Sub Committee of the Imperial Council of Agricultural Research and the Indian Central Cotton Committee at its meeting held in January 1933 agreed to Bengal being brought in the scope of the scheme for investigation into the cost of production of sugar-cane, cotton and their rotation crops by the inclusion of two of its tracts, viz., (1) Bogra tract and (2) Birbhum tract, under one District Supervisor. The Government of Bengal, however, found it difficult to run two districts with one Supervisor and applied for an additional annual grant of Rs. 720 for the travelling allowance of another Supervisor whose pay would be met by the Viswa Bharti Institute. This proposal, as already reported at the last meeting of the Committee, was agreed to by the Sub Committee at its meeting held in October 1933. Subsequently, the Bengal Government applied for an additional grant of Rs. 250 under "Contingencies" for both Supervisors and the Sub Committee sanctioned the request provided the additional expenditure could be met from savings in the grant already sanctioned.
- 9 The Sub Committee sanctioned the reallotment of Rs 391 which had already been surrendered for expenditure during the year 1933-34 on the Burma Cotton Improvement Scheme
- 10 The Sub Committee considered the question of payment of travelling allowance to invitees to the meetings of the Indian Central Cotton Committee and its Sub-Committees and decided that they should be paid only out-of-pocket expenses up to a maximum of a single first class fare, mileage by road of six annas and a daily allowance not exceeding Rs 10 per day for the days they actually attend the meetings
- The Sub Committee, on receipt of a telegram from the Government of India announcing the continuance for one more year of the emergency cut of 5 per cent in salaries of their staff, decided to follow the Government lead and apply a similar cut to all Committee's servants except those who are already exempt from it in heu of their revised lower scales of pay. The Sub-Committee also decided to address the Board of Governors of the Institute of Plant Industry, Indore, to continue for another year the 5 per cent cut in salaries of the Institute staff. The Board has agreed to fall in line with the Committee. Mr. F. K. Jackson, who is on special contract, has been exempted from the cut, and it is not known if Mr. Hutchinson also who is on similar contract is exempted from it.
- 12 The Sub-Committee considered the question of the revision of pay of Junior Clerks in the Secretary's office and decided to fix it on Rs 60—3—90 in the place of the old scale of Rs 70—4—90 for new entrants, with retrospective effect from the 1st October 1933
- 13 The Local Sub-Committee at its meeting held on the 19th January 1934 decided that a joint representation of the East India Cotton Association and the Indian Central Cotton Committee should be sent to the Bombay Government for abolishing road tolls levied on bullock carts and motor lorries carrying lapas and ginned cotton. As the Local Sub-Committee was not likely to meet soon, the Standing Finance Sub-Committee considered the joint draft of the two bodies and, while approving of it, desired to point out that tolls of this kind were against the policy of the Government of India who were opposed to levying any duties which stood in the way of free flow of trade and traffic.

- 11. As required by Rule 9 (1) (a) of the Indian Cotton Ce of the the Standing fenance Sub Committee appointed and pert Sub Committee condition of the Previolent, Vice-President and Mean: Stewart, Burt and Sallaty da to emaine the applications for the appointments of a Plant Physiologist and a Bio Chemist in connection with the scheme for investigation into the cause of the periodic fedure of American cotton in the Punjab. The Standing Linance Sub Committee considered the recommendations of the Expert Sub Committee and approved of the appointment of Professor B. H. Dr. (ur replant Physiologist on a starting pay of not exceeding P. (a) of in the reals of Professor P. (b) and the reals of Professor P. (c) and the reals of Professor P. (d) and the reals of Professor Pro
- agreed to the Laboratory undertaking operate to fee provide a not meaning and independent of the Laboratory undertaking operate to fee provide to the order and individual provided no inconvenience was thereby existed to the order to order to order to fee for white the consultation with the Director, Technological Laborator. The following tendent of fees proposed by the Director was approved to the Standard Laborator Sub-Committee, subject to such alterations as may be found necessary at the end of the month.

		11	r,	Ţı
(1)	Variety of Cotton (Broad classification)	25	()	()
(2)	Identification of fibre (unero copical to *)	15	()	(i
(3)	Percentage of size	7	۲,	0
(4)	Percentage of greace ,	7	8	Ð
(5)	Percentage of free acid	15	{}	O
(6)	Presence of milder	7	٠,	0
(7)	Causes of milden growth .	70	U	()
(8)	Percentage of immature libro			
	(a) in lint (or lapas)	10	()	0
	(b) in yarn or cloth	17	()	0

- 16 The Sub-Committee considered the question of charging the Central and Local Government Departments for tests carried out at the Technological Laboratory and decided that as usual no fee should be charged for any tests in defor the Department of Agriculture and that all tests made for any other Government Department should be charged for at 25 per eent below ordinary rates.
- 17 The Indian Central Cotton Committee at its me ting held in January 1911 agreed to refer to the Standing Finance Sub Committee the que tion of the revision of the grade of pay of Head Clerk's post at the Technological Indicatory. The Sub Committee considered the subject at two of its meetings and decided finally that the scale of pay of the Head Clerk should be raised from Rs 150—10—200 to Rs 150—10—200 (Ffliciency Bar)—10—240, provided that except by a resolution of the Standing Linance Sub-Committee no successor of Mr. Majumdar, the present Head Clerk, be permitted to pass the Efficiency Bar
- 18 The Sub-Committee considered a letter addressed by the United Provinces Government to the President of the Committee asking for loan of the services of the Publicity Officer for a period of one year in the first instance, free of cost, the Local Government paying only his travelling allowance. The Sub-Committee decided that Mr Mihra's services might be lent to the United Provinces Government for a period not exceeding six weeks provided the Local Government were prepared to pay his travelling allowance.
- 19. The Sub Committee reported to the last meeting of the full Committee that the Punjab Government had raised an objection to the appointment of Mr Mohammed Afzal as Cotton Research Botanist in the Punjab and that a reply to their objection had been submitted to the Government of India justifying the appointment of Mr Afzal The Punjab Government have since withdrawn their objection The Sub Committee considered and approved of the proposal of the Punjab Government fixing the pay of Mr. Mohammad Afzal at Rs 480 with the usual annual increment in the scale of Class I—Provincial Agricultural Service, viz., Rs 360—40—720/40—800—50—1,150.

- The Sub Committee considered the request of the Punjab Government that, out of the saving, now accruing to the Committee due to the appointment of Mr Mohammad Afzal as Cotton Research Botanist on a lower rate of pay, a lump sum might be placed annually at the disposal of the Local Government to enable them to invite one of the scientists engaged on cotton research work in other parts of the world to visit the Punjab in the course of the cold weather and advise the Dopartment of Agriculture on the last and most up to date method of investigation. The Sub Committee decided that any specific proposal put forward by the Punjab Government should be considered on its own ment and that no general specific was necessary.
- 21 The Sub Committee sunctioned a total sum of Rs 7,600 for the purchase of additional machinery for the Blow Room in connection with the scheme for the extension of the Technological Laboratory sunctioned by the Committee at its last meeting
- 22 The Indian Central Cotton Committee at its last meeting agreed to the proposal of the Central Provinces Government that the pay and allowance of Mr. D. N. Mahta, Leonomic Botanist to Government, Central Provinces, should be met from the Committee's funds provided a second Leonomic Botanist was appointed by the Local Government. The Sub Committee considered the reply of the Local Government agreeing to where Mr. Mahta of all work other than cotton and to make their own arrangement for the work on other crops and decided to pay Mr. Mahta his full pay and a duty allow ince of Rs. 200 p. r. month
- 23 The Sub Committee conctioned an additional grant of Rs 750 for 1933-34 for the Sind Physiological Research Scheme for the reconstruction of the field Laboratory, provided the additional grant could be met from the savings of previous years
- 24 The Sub Committee at its inceting held on the 20th November 1933, while considering the revised estimates of expenditure during the extension period of the Madras Pempheres and Phynological Scheme, decided that in view of this scheme being almost entirely for the benefit of the Madras Presidency, the Local Government should by requested to waive the recovery of leave and pension contributions from the Committee. The Madras Government having expressed their inability to agree to this decision, the Sub Committee decided again to make a further representation to them to reconsider their decision and waive the recovery of both leave and pension contributions as in the case of other provinces
- The Committee at its meeting held in August 1933, while sanctioning the extension of the Hyderabad Botanical Research Scheme for a period of five years from the 1st April 1934, approved of the recommendation of the Special Sub Committee, appointed to consider the question of merging of the Committee's grants into provincial revenues, that the pay of the Cotton Research Botanist should be fixed at Rs 1,000—50/2—1,250. The Government of India, while conveying their sanction to the extension of the scheme, pointed out that the pay sanctioned by the Committee for the Cotton Research Botanist was much in excess of the scale of Rs 325—25—650 (EB)—35—1,000 fixed for Class I appointments under the Central Agricultural Department, including that of the Second Leonomic Botanist at Pusa and suggested that he might continue in his present scale of pay of Rs 700—100—1,000. The Sub-Committee, approving of the suggestion of the Government of India, agreed to fix the maximum pay of the Cotton Research Botanist, Parbhani, at Rs 1,000 per mensem
- 26. The Sub Committee sanctioned various new items of expenditure required in connection with the studies of village consumption of cotton in the United Provinces, Sind, Madras and the Punjab, subject to the condition that the excess expenditure should be met from the grants already sanctioned. The Sub-Committee also extended the period of enquiry in the Southern Division of the Bombay Presidency by one month and in the Baroda State by 15 days, the additional expenditure being met from the grant already sanctioned. A supplementary grant of Rs 1,000 was also made to the Bombay Cotton Forecast Improvement scheme for meeting the travelling expenses of the Officer-in-charge in visiting Indian States.
- 7 The Sub-Committee accepted the resignation of Mr D F Kapadia, Assistant Technologist, Technological Laboratory, Matunga, and decided that the question of his leave should be referred to the full Committee at this meeting. This subject is dealt with separately on the agenda of the Committee
- 28 The Sub-Committee decided that, in future, applications for appointments outside the Committee's service from all officers of the Technological Laboratory whose maximum pay did not exceed Rs 250 should be forwarded through the Secretary and all other applications through the Standing Finance Sub-Committee.

- 29 The Sub Committee considered the Audit Report for the year ended 31st December 1932 of the Hubli Co operative Cotton Sale Society and agreed to pay to the Society the maximum subsidy of Rs 5,000 and interest of Rs 596-10-0
- 30 The Sub Committee recorded the following remarks of the Government of India while conveying sanction to the budget of the Committee for the year 1934-35
 - "The Government of India understand that the attention of the Indian Central Cotton Committee has been drawn to the danger of the depletion of its reserve funds and that steps have been taken to avoid such a contingency. They trust that effective measures will be adopted towards this end."
- 31 The Indian Central Cotton Committee, at its last meeting, resolved that the Budget of the Institute of Plant Industry, Indorc, for 1934-35 be reduced by Rs 40,000 or such sum as the Standing Finance Sub-Committee might decide. As per powers delegated to it by the full Committee, the Sub-Committee considered the subject at three of its meetings, but no final decision has yet been arrived at as the negotiations between the President of the Committee and the President of the Board of Governors of the Institute are not yet completed.
- 32 The Sub-Committee considered and refused the request of Rai Saheb Kalidas Sawhney, Cotton Research Botanist, Parbhani, for a reconsideration of the Committee's decision arrived at in August 1933 refusing him permission to visit, at the Committee's expense, Egypt and various institutes and research stations in England. The Sub-Committee, however, sanctioned the extension of his leave by ten days on half-average pay and agreed to the proposal of the Hyderabad Government to grant an allowance of Rs 50 per mensem to the Deputy Director of Agriculture, Parbhani, for being in additional charge of the Committee's Botanical Research Scheme during the absence on leave of the Cotton Research Botanist
- 33 The Sub-Committee refused the request of the Burma Government for additional grant to meet the travelling allowance of the Deputy Director of Agriculture, Myingyan Circle, in charge of the scheme for the improvement of cotton in the Wagale tract of Burma
- 34. The Sub Committee sanctioned the extension of the Madras Herbaceum Research Scheme for a period of one year from the 1st June 1934 at an estimated cost of Rs 8,803
- 35 The Sub-Committee as decided by the full Committee at its meeting in February 1933 sanctioned a sum of Rs 1,000 required for expenditure during the current financial year on the travelling allowance of the Officer in charge of the Rohilkhand and Bundelkhand Cotton Survey Scheme, United Provinces, subject to reconsideration of this item as soon as the orders of the Government of India on the status of the Committee's servants were received
- While considering the Progress Report on the Sind Physiological Research Scheme, the Committee at its meeting held in August 1933 desired to draw the attention of the Bombay Government to the fact that considerably more land was required for the field experiments now being conducted by the Physiological Section at Sakrand. The Sub-Committee considered the proposal of the Chief Agricultural Officer in Sind for additional expenditure during the current year of Rs. 1,550 for the lease, development and cultivation of the newly leased land as recommended by the Committee and decided that, in view of the accepted policy of the Committee not to provide land or buildings, the Chief Agricultural Officer in Sind should be requested to approach the Government of Bombay for the lease and development of the land and that, in the meanwhile, he might be advanced the whole amount of Rs. 1,550 till he obtained necessary sanction from his Government
- 37 The Audit Reports of the Gadag Co-operative Cotton Sale Society for the years ending 31st December 1932 and 1933 were considered by the Sub Committee when it was decided that the Society should be paid as follows —

Rs a p 835 10 0 for interest and Rs 2,547-1-4 for subsidy during 1932-33 662 2 6 for interest and Rs 5,000 for subsidy during 1933-34

38 The Sub-Committee sanctioned leave to Mr R P Richardson, Spinning Master of the Technological Laboratory (now Officiating Director), for four months and three days from the 10th September 1934 or any subsequent date which might be suitable to both Mr Richardson and Dr Nazir Ahmad The Sub-Committee also agreed that Mr Richardson should be provided with a return Second Class "A" ticket from Bombay to London

- At its meeting held in March last, the Special Sub Committee appointed by the Committee to consider the question of a wider market for Indian cotton decided that Dr. Nazir Ahmad, who was on leave in Europe, should be asked to get into touch with the various industrial research associations in Europe and to find out to what extent the Committee's Technological Laboratory could collaborate with them. As Dr. Nazir Ahmad expressed his inability to carry out in full the suggestions of the Special Sub Committee due to the limited time at his disposal, the Sub Committee decided that he should be deputed for one month to visit industrial research associations in Europe and that during the period of his deputation he should be paid his full pay and travelling and halting allowances as admissible under Rules of the India Office (Appendix 7 to the Fundamental Rules)
- 40 The Technological Research Sub Committee at its last meeting decided that quotations of reliable firms of architects should be obtained for the extension of the Technological Laboratory. The Sub Committee considered quotations offered by six firms and decided to appoint Mr. Ditchburn as Architect for extensions to the Technological Laboratory.
- The Committee at its last meeting decided that during the absence on leave of Dr Natir Ahmad for a period of 4 months and 24 days, Mr R P Richardson should officiate as Director in consideration of which he should be granted an honorarium of Rs 1,000. In view, however, of the extension of his acting period for one month, due to Dr Natir Ahmad's deputation, referred to in paragraph 39, the Officiating Director applied for an irrecase of the honorarium already sanctioned to him. The Sub-Committee after considering the application decided that in view of the strong opinion expressed by several members of the Technological Research Sub-Committee against sanctioning any acting allowance, Mr Richardson's request should not be complied with
- 42 The Sub Committee sanctioned the extension by two months, up to the 31st October 1934, of the scholarship period of Mr T R Narayanan, who has been sent to Cambridge for training in Plant Physiology prior to his taking up the post of Physiologist in the Madras Pempheres and Physiological Scheme

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		RECEIPTS.	Cotton cess receipts	Interest account— Amount received on invest- ments	Add—Refund of Incometax deducted from interest		1,ess—		ing Government Faper (since recovered), interest on temporary	overdraft and Bank's commission for commission collection of interest	2 Interest credited to Provident Fund	account withdrawal 3 Bank's withdrawal charges for securities	sold 4 Income-tax deducted on interest

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			60,118,11,60	5,163 0 0										10 90 909 1 8	၂ တ
D. Printing and Propaganda—	1 Publicity and Propa- ganda 41,309 10 0	2 Printing and Distri- bution 23,838 7 0		I. Statistical Research	II Technological Research-	(1) Technological I abora-	A Capital Lypenditure—	I I and and Buildings 3,77,917 7 3	2 Machinery 86, 136 1 S	3 1 reight 7,502 2 8	4 Apparatus and Equip. ment ment 7 7	5 Machinery Workshop 5,789 8 3	B. Working Expenses 13,59,655 4 0	(2) Provincial 50,633 6 3	Carried over
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6. Brol.orage for storling loan sold	6. Provision for Sinking Fund	111	ī	Profit on conversion and sale of securities	Sunking Fund account	Miscollancous receipts	Refund from Provident Fund for contributions disallowed	Suspenso receipts							arried over

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TURE	Brought forward33,30,969 0 1 41,96,502 11 1.	XII Hyderabad— 1,13,160 13 11 (a) Botumen 18,047 1 0 (b) Cotton Survey (c) Pinh, and Spotted 7,680 0 0 Roll-worm	XIII. Bihanor	XIV Baroda— (a) Root Rot (b) Comparative Tests (c) Comparative Tests
Balanob Shebt as at 31st March 193 (—concld	Rs a. P. 1,04,80,623 15 5			
	RECEIPTS.	or de la contraction de la con		

77,30,964 0 10 8,063 9 3 Loans recoverable (but considered doubtful)—
1 Co operative Cotton Sale Society, Hubli Sale
2 Co operative Cotton Sale Society, Gading Total Expenditure ΔX

7,292 0 0 Suspense account By balance

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Grand Total

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		Rs a p. Rs. a. p.	25,038 3 0	23,378 0 0	1,660 3 0	1,738 2 0	2,32,051 12 10					Grand Total 2,36,350 1 10
Bilince Sheft as it list Minch 1934 Provident Fund Iccount	CXPCNDUTURE		By advances to subscribers	Less-Recoveries made up to 31st March 1934	1	Accrued interest on Government Paper credited to subscribers up to Alst March 1934	By Balance					Gr
Bilince Shelt As Provident F		Rs a p		1.06.084 14 .6				1,05,066 7 0	968 1 10	23,084 9 5	246 1 1	2,36,350 1 10
		Rs a p	1,40,336 13 9	34,251 15 3	1,37,286 9 11		32,220 1 11	1				Grand Total
	RECEIPTS.	-	Subscribers' contributions	Less—Payments made to subscribers resigned and	Committee's contributions	Less—Payments made to subscribers resigned and forfeitures to the Committee	and to the Lapses and For- fertures account		Suspense deposit of Mr Dutt's own contributions with interest	Investment fluctuation account	Lapses and Forfeitures account	

			100)			
Records and Payments for the near ended Al-1 March 1934. Rs. Rs. R. P.	Administration Improvement of (including Jupeovement Distriction Marketing, Seed Districting 3,43,0,30 13 8 Cotton Marketing, Printing 4,00,543 14 9 Intron and Prepagation (frants in aid. 1,00,112 1 4 Agreeulment Research (frants in aid. 1,00,112 1 4 Agreeulment (frants in ai	Closing Inhance—(1997) Paper with Clovernment Promissory 12 per with Clovernment Promissory Noton of the face value of 1,13,58,3 2 5	13. 1,00,000 Government of them of 2,18,032 13 0 14. por cent (10, face value of 100,285 8 10 14. por cent (10,00), face value of 0,00,285 8 10	124 10,01,000 14 per cip Government of India of 25,00 t 0 0 Loun, 1956 60, face value of 25,00 t 0 0 139, 26,600	7, por cent Government in the Shino of 1,000,070,113 6 1500,000 130,000,000 180,000 180,000 180,000 180,000 180,000 180,000 19	RB. 50,000 Kanachi Port Trust 6 por cont Kanachi Port 1956, Faco Coupon Dobontures, 1956, Faco Coupon Rangoon Manicipal copy cont. Rangoon Manicipal copy cont. 1955, faco value of 15,328 2 0	Debendance, 184,389,500 184,3,87,500 184 por cent Indu Steeling Loan 186,899 11 10 186,899 11 10 186,898 11 10,898 1
Stalemont of Records and Payments sa	Ra. n P.	1 8 31,072 8 7	0 179°72"(1				

Roceupty under Scotton 12 of the Indian Cotton Cess Act. 1923

Interest on investments

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								27,49,659 14 7	36,92,646 12 4	Totton Cotton Cata
nt • 4,721 4 10					3,335 10 5	2,932 7 6	15,355 9 3		Total	Gudan Co or
Bank of India Currel	rest — Rs a p ommittee s Accounts as certified by the Secretary	il Laboratory ed by the Fechnological	Laboratory 500 0 o High Commissioner for India, London, for	scholar-lups (£100) 1,335 10 5		Suspense (Recoverable) Joans Recoverable (but, considered	doubtful)	§Total Closing Balanco		ns recoverable from Hubli and
Imperal	Imprest — Committee s as certific	Techno	Labo High (India	schol		Suspense I oans R	doubtfr	\$Total Cle	4 21	355-9 3 agamst loan
									36,92,646 12 4	g Fund and Rs 15,
									Total	*Includes Rs 3,672-2-0 on account of Sinking Fund and Rs 15,355-9 3 against loans recoverable from Hubli and Gadar Co constitute Cotton Sales

†Inoludes Rs 1,056-5-0 against provision for Sinlang Fund for the year 1033-34 and Rupce one recovered in excess from the Director of Agnoulture, erable from Hubit and Gadag Co operative Cotton Sale Societies

Mozambique, against cost of cotton seed supplied to him

#4 per cent Government of India Loan, 1960-70, of the face value of Rs. 1,16,900 has been deposited with the Imperial Bank of India for security against overdraft that may be required by the Committee §This includes Rs 4,728-7-0 on account of provision for Sinking Fund

explanations received, the above Statement is a correct abstract of the figures appearing in the Books and is drawn up in conformity with the Rules We have examined the above Statement of Receipts and Payments of the Indian Central Cotton Committee with the Books, Vouchers and Certified Roturns of the Committee, have obtained all the information and explanations we have required and certify that to the best of our information and

Bombay, 27th April 1934.

Registered Accountants, Auditors (Signed) S B BILLIMORIA & Co,

granged March 1974. Expendently the as poster poster posterior po		the face value of Re 45,60 finds the face value of Re 45,60 finds the cent Covermment of India foun, 1931 47, of the face value 2,012 & 0	I per cent Government of India Louis page 70 of the face value 33,57% to to	5 pur cent Gavennuent of India Loun, 1949 11, of the face adue of 17,150 to to	of percent Bomber Improvement of April 1 to	sydner fruik Deport with the cost fides to Imperial Built of India	Sayary Rail Vecount with the 1673 2 to Impressed Bank of Rolls	tarion Acount with the Indiana Apotta to 7 gapeta to 12 to 16 find of finds	- Part II Chadus Tanana
Provident Pund Account as at at March 1881.	16a. a p. 18a. a. P		17,581 1 0 npulnub 3,141 12 0 0, 20,5 13 0		Leas Refunds to subscribers resigned, including wrong resigned, including wrong resigned, including the 2,135 4 \$	Advances to subscribert 2, 2,465 11 0 E, and 2 4	1, 45,905,11	Committee's contribution received from Indian Contral Cotton Committee at 17,681 1 0	r. 21 619,67.

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								2,32,951 12 10	
								Total	*Includes Rs. 968-1-10 being Suspense Deposit with interest thereon of Mr Dutt's own contribution.
2,301 3 10	7,465 11 3 185 4 1 221 13 0	7,872 19 #			310 9. 11	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 . 2,32,951 12 10	boing Suspense Deposit with inter
Less—Payments to subscribors who have resigned including transfors to Lapses and Forfeitures account for contributions disallowed and wrong recoveres to Indian Central Cotton Committee	Interest received on investments Interest received on advances to subsembers Refund of Income-tax deducted on Interest received during 1932-33	្	On their own contributions 63 12 8 On Committee's contributions 61 11 6 Income-tax deducted from	interest on investments (recoverable) Bank's commission for 17 19 0	nting, 61 8 0]	Lapses and Forfeitures Account Investment Fluctuation Account	Total	*Inoludes Rs. 968-1-10 l

Exammed and found correct

Bombay, 27th April 1934.

(Signed) S B BILLIMORIA & Co., Registered Accountants, Auditors.

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Final Accounts, 1933-34 EXPENDITURE budgot Rs. Ra. I A. Administration of Cotton Marketing— Cotton Marketing—	(1) Cost of Evhibits, Moisture tests, etc. (2) Cost of glowing cotton in India	29,69,850 9 9 6,8eed Diskribu- tion and Extension Schemes— Schemes— 5,443 4 7 1,056 5 0 (1) Hubit (11) Gadag Supple- (12) Gadag Supple- (13) Gadag Supple- (14) Gadag Supple- (15) Gadag Supple- (16) Gadag Supple- (17) Gadag Supple- (18) Gadag Supple- (19) Ga
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1014411		II. Technological Research	1. Technological Laboratory—	(a) Capital 14x- pendituro (b) Working Ex- ponses	2. Provincial	Research Student- ships	Agricultural Research Grants.	Bombay— Surat Physio-	2 Surat Physio- logioal Writing
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Final Accounts, 1933-31—contd	11 a a 11 a 41 a 41 a 41 a 41 a 41 a 41	20,543,605							

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(b) Surat Boll- worm Clean- up (c) 1 D h a r w a r Wilt	2 Dharwar Wilt Writing	Brecding	Brecding Co ordinat 10 n	Research Khandesh	Brecding	3 c	Madra	(c) Herlaceum	(b) Pempheres and Physiological	Fodder Cholum	Breeding of N a d a m Cotton .	Carried over 8
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Final Accounts, 1933-11-concld

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Total ..

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27,34,304 5 15,355

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119 ċ 2,855 14 0 . 2,32,951 12 10 Total .. 2,40,759 11 2,452 15 ₽ 2,400 \mathbb{R}^{g} subsorbors, resigned, and forfeitures to the Provident By refunds to subscribers, resigned, of their own contribu-By payment of Committee's contributions with interest to EXPENDITURE : Final Accounts, 1933-31-Provident Fund Account tions with interest By Advances made By Balance 0 1,70,531 0 11 Ď 38,309 14 ے 2,40,759 11 7,688 24623,084R3. å 7,749 10 Tota] 2 Q α 3,141 12 17,584 17,584 35,168 \mathbb{R}_{9} 6 lst contributions contributions l professional solicitors for Less-Expenses for stationery, of Provident Forfeitures Auctuation Recoveries against advances To Opening Bulance on April 1933 RECEIPTS Interest (Not) received and and charges to amendment Fund Rules Committee's Subscribers' Investments

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R8. a. p.	(i) Cost of orlubits, before the Cotton of the Cost of orlubits, cotton in India T3,143 0 0 T8,113 0 0 (ii) Gadeg Supple 5,180 0 0 (iii) Gadeg Supple 6,180 0 0 (iv) Gadeg Supple 6,180 0 (iv) Gadeg Supple 6,180 0 (iv) Gadeg Supple 6,180 0 (iv) Gadeg S
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(2) Madras Presidency-

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145	510	5,430	0,110	35,859	1,168	2,528	61,910	31,100	10,709	4,814	6,590	17,184	2,674	2,18,590
(a) Dharwar Wilt Writ- ing-up Scheme	(1) Survey of Cognum cotton	(y) Defibration of cotton seed	V Madras— (a) Herbacam	(b) Pempheres and Physiological	(c) I edder Cholam	(d) Breding of Nadam cotton	VI Punjub— (a) Botanical	(b) Entomological (Pink and Spotted Boll-worms)	(c) White Fly	(d) Root Rot .	(e) Spraying Trials	(f) Physiological	(g) Survey of Disease of Malformation .	Carried over
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33,72,159 14 7 (rat of Total 33,72,159 14 7	By Belin				20,10,383 13	
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Budget for 1935-36 for pay and allowances of Government remants lent to the India v Central Cotton Computter

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INDIAN CENTRAL COTTON COMMITTEE

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Σ0	Sub and detailed head	Amount of provision
	PAY OF OFFICERS	
	Non Voted	
1	Secretary—Pax Rs 450 - 50 - 1 250 over eas pax Ps 300 and special pax 400	Rs 21,071
	Deduct-Unergency deduction from pay for March 1935 at 5 per cent	87
]	Deputy Sceretary—Pay Rs 450—50—1,250, overseas pay Rs 300 and special pay Rs 250	16,800
	Deduct-Emergency deduction from pay for March 1935 at 5 per cent	70
	PLEMANINT PAY OF ESTABLISHMENT	
5	Superintendent and clerks (at rates varying from Rs. 70 to Rs. 750) Deduct—Emergency deductions from pay for March 1935 at 5 per cent	22,057 —89
	Leave-salary—Establishment .	1,300
	Allowanols, Honoraria, etc	
	Non-Lated	
	House-rent and other allowances	1,200
	Travelling allowance of officers	1,000
	Voted	
-	Travelling allowance of Establishment	300
	$Total \begin{cases} Non-voted \\ \end{cases}$	45,917
	(Voted	23,568
	Grand total	69,485
	Deduct—Recoveries from the Committee	68,185
	Nett—Leave salary of Establishment paid by Government	1,300

APPENDIX VIII.

Subject 78 - Unimode Standonie for Indian comon-Progress Peton.

Secretary's Note.

At the list meeting of the Committee it was reported that in compliance with a Resolution of the Committee at its February 1973 meeting, the Local Sub-Committee and appointed a special sub-committee called the Standards Sub-Committee consisting of one representative of the Imperial Council of Agn ultimal Research, two of the East India Cotton Association and two of the Tamphi Cotton Association operating in India, e.g., the East India Cotton Association operating in India, e.g., the East India Cotton Association.

I The Standards Sub-Commutee as customed above met trille in January 1904 and decided that standards - ould be presented; if the tellowing cottons, the first four of which should be dealthout; at Kamahi and the remainder at Bombay:—

(1) Bengals

4) Sad-Am-1967

(7) Dholleras

121 Sind.

(5) Oomre

15) Broad.

- 13) Pm1ac-american
- (11 TF 1725
- 19. Kemptas
- 3 The Standards Sub-Committee also have deal which particular growths of the above cottons should be used for prejaming fundands and also the number and description of standards of each matter of cotton which should be prejared.
- 4 The construction of the Standards Sub-Committee was modified as follows by the Loud Sub-Committee at its meeting he'd on the 2'th July 1994.
 - 1.) Then standards for such cottons at are dealt with by both the Karachi and East India Cotton Associations are to be pasted by the Standards Sub-Committee, two representatives each of both these Associations and one representative of the Imperiod Council of Agricultural Research would constitute the Standards Sub-Committee.
 - (b) When standards for such cottons as are dealt with by only one of the Associations are to be passed by the Standards Sub-Commuttee, the representatives of the Association not confermed should be replaced by two representatives of cotton growers of the cotton are the concerned.
- 5 The Loud val-Committee also de ided at its meeting on the 20th July 1934 that the Indian Central Cotton Committee should every year preserve in hermography sealed house a sit of standards pasted by the Nandards Suo-Committee for reference in case of dispute. No final decision has, not ever, arrived at at to where these standards should be stored and this point will be further considered.
- 6 At nomering he a on the 18th August 1904 the Local Sub-Committee decided that the appointment of the committees on the Standards Sub-Committee should be made by the Committee on the recommendation of the Directors of Agriculture of the Provinces concerned but that should it not be pressule to appoint two conton generation and that's, one person represent no cotton marketing interests should be appointed in place of one of the cotton provers.

At this same meeting the Local Nob-Committee decided that members of the Standards Sub-Committee should be to distributed to the persons up to a manimum of a single for the fact of the construction of the construction of a single for the fact of the construction of a single for the fact of the construction of a single for the standard of the construction of the co

APPENDIX IX.

STEPECT 84 —Proposed introduction of a convenient for the purenase of seed cotton throughout India

Secretary's Note.

The Committee at its meeting in Januar, lart passed the folloring resolution —

'That in regard to the unils on of meights for apacitic Indian Central Cotton Committee argue as of the 50' or samed on the Governments of Bombay and United Provinces of 1, that both the Plantam maind of 22' literapides based on the tollocal treduced of 7-4 literapides used on to two diamordizous should be retained and that of the should first be constructed in the same tion of prouthoused maundard transformed thanks.'

The decision of the Committee was communicated to the Governments of Bombay, Madras, Punjab, the United Provinces and the Central Provinces and to the Hyderaliad, Baroda, Mysore, Gwalior and Indore States. The replies from the Local Governments are attached. No final reply has been received from any of the States addressed.

Bombay—Under the Bombay Weights and Measures Act 1932, the railway mained of \$2½ lbs denominated the Bombay mained is prescribed as one of the standard weights. The khandy is not being prescribed as one of the standard weights and hence in all future transactions, in which reference is made to the khandy, its equivalent will have to be specified in terms of one of the standard weights, its, lbs, quarters cuts tons or mained else all such transactions will be void. It is understood that the Act will be put into force from 1st March 1935 in Bombay City and the Districts of Brouch, Surat, Thana, Bombay Suburban District. Ahmedingar, Poona, Satara, Belgaum, Karachi and Sukkur

Madris - The mound of 28 lbs and the condy of 781 lbs are being prescribed as standard units for all cotton transactions

Punjab—No cotton transactions are made by the khandy the only unit of weight being the maind of 52, lbs. The question of elimination of units of weight other than the maind does not arise

United Provinces—The Local Government have issued an amendment to the United Provinces Cotton Ginning and Pressing Lactories Rules according to which all weighments of lapas, ginned cotton or pressed cotton must be made in the standard imperial mained of 82: Ibs or the khandy of 784 lbs and their fractions

Central Provinces—Cotton markets in the Central Provinces and Berar have been asked to take steps to adopt, before the next cotton season begins the standard neights recommended by the Committee—Unauthorised weights will be gradually eliminated by the increasing use of the above standard weights by important buyers and tellers.

It is not apparent what the objection of the Bombay Government is to the standards sation of the khandy of 784 lbs, and it is for consideration if the Committee should not press for its recognition

As regards the standardisation of a maund of 28 lbs in Madras, the Local Government state that the growers and the trade are definitely in favour of this unit of weight

APPENDIX X.

Subject \$5 -Broadcasting of commercial news on collon

Secretary's Note.

Mr N M Deshmukh, a member of the Indian Central Cotton Committee, representing the cotton growing industry of the Central Provinces and Berar has given notice of his intention to move the following resolution at the meeting of the Committee —

"That the Indian Central Cotton Committee requests the Government of India to resume the broadcasting of all commercial news connected with cotton in the mornings particularly through Bombay Radio Station"